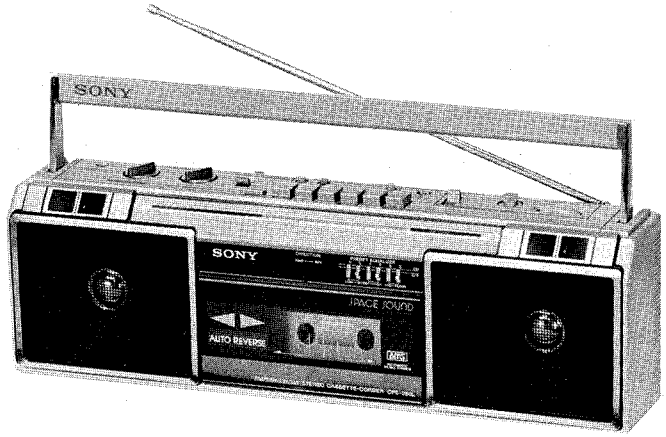
CFS-280L

SERVICE MANUAL

AEP Model



Similar Mechanism Set	CFS-280

SPECIFICATION

Radio section

Frequency range	FM 87.6–107 MHz MW 530–1,605 kHz LW 150–285 kHz SW 6–18 MHz
Antennas	FM/SW: Telescopic antenna MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system	4-track 2-channel stereo
Fast winding time	Approx. 2 min. with Sony C-60 cassette
Frequency response	80–8,000 Hz
Speakers	Two way: Woofer 10 cm (4 inches) dia. × 2 Tweeter 1.5 cm ($^{19}/_{32}$ inches) dia. × 2
Power output	2.2 W + 2.2 W (at 10% harmonic distortion) at DC operation
Inputs	WALKMAN IN jack (stereo minijack) sensitivity 77 mV input impedance 200 ohms
Outputs	Headphones jack (stereo minijack) for 8–300 ohm impedance headphones
Power requirements	220 V AC, 50 Hz 9 V DC, six IEC designation R14 (size C) batteries
Power consumption	14 W AC
Battery life	Approx. 7 hours of continuous recording with the built-in radio using Sony SUM-2 (NS) New Super batteries
Dimensions	Approx. 441 × 147.5 × 127.5 mm (w/h/d) ($17^{3}/_{8} \times 5^{7}/_{8} \times 5\ ^{1}/_{8}$ inches) incl. projecting parts and controls
Weight	Approx. 2.5 kg (5 lb 9 oz) incl. batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

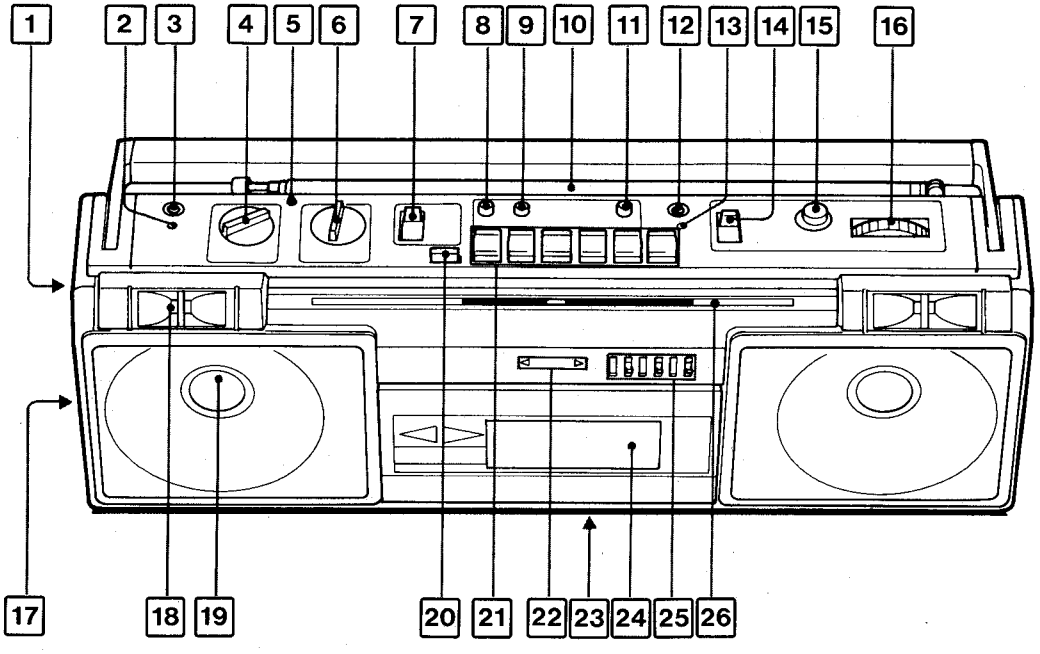
FM/MW/LW/SW STEREO CASSETTE CORDER

SONY®

TC

SECTION 1
OUTLINE

1-1. FUNCTION OF CONTROLS



[1] **ISS (interference suppress switch)/FM MODE selector**

[2] **OPR/BATT (operation/battery) indicator**

[3] **PHONES (headphones) jack (stereo minijack)**

[4] **VOLUME control**

[5] **MIC (built-in microphone)**

[6] **SPACE SOUND control**

[7] **FUNCTION selector**
TAPE/RADIO OFF
RADIO/WALKMAN* IN
*WALKMAN is a trade mark of Sony Corporation.

[8] **TAPE SELECT switch**
NORMAL (⌑)
METAL/CrO_2 (⌓)

[9] **REC MUTE (record muting) button**

[10] **Telescopic antenna**

[11] **REV (reverse) MODE switch** (only for playback)
⊆ (⌑, one-cycle)
⟲ (⌓, cycle)

[12] **WALKMAN IN (line input) jack (stereo minijack)**

[13] **FM STEREO indicator**

[14] **BAND selector**

[15] **SW FINE TUNING knob**

[16] **TUNING knob**

[17] **AC IN (AC input) socket** (left side)

[18] **Tweeter**

[19] **Woofer**

[20] **DIRECTION button**

[21] **Tape operation mode select buttons**
II PAUSE button
◀◀ (fast forward) button
▶▶ (fast reverse) button
◀ PLAY (playback) button
● REC (record) button
■ STOP/EJECT button

[22] **DIRECTION indicators (◀ FWD and REV ▶)**

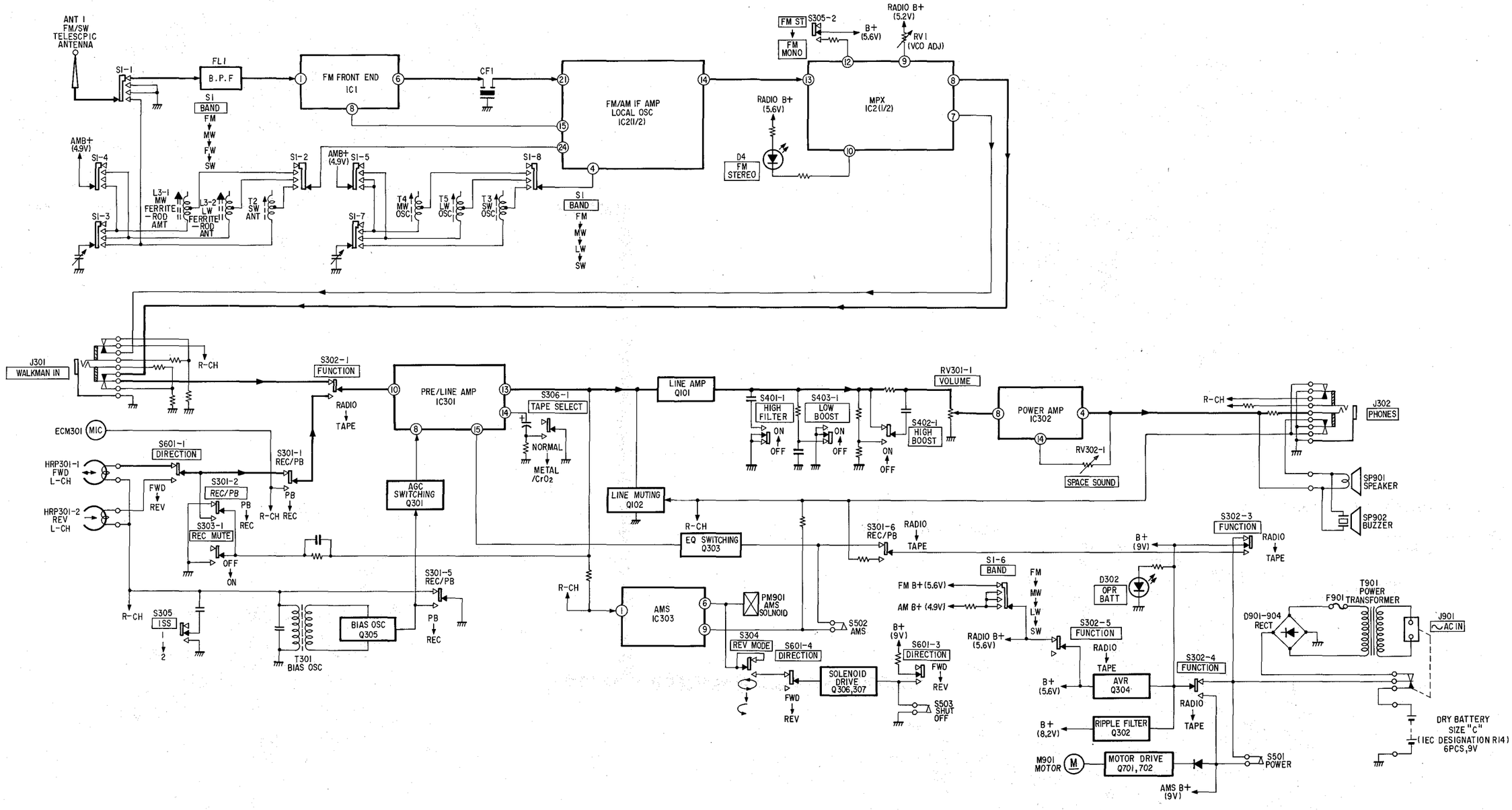
[23] **Battery compartment** (rear)

[24] **Cassette holder**

[25] **PRESET EQUALIZER switches**
LOW switch
HIGH switch
HIGH FILTER switch

[26] **Dial scale**

1-2. BLOCK DIAGRAM

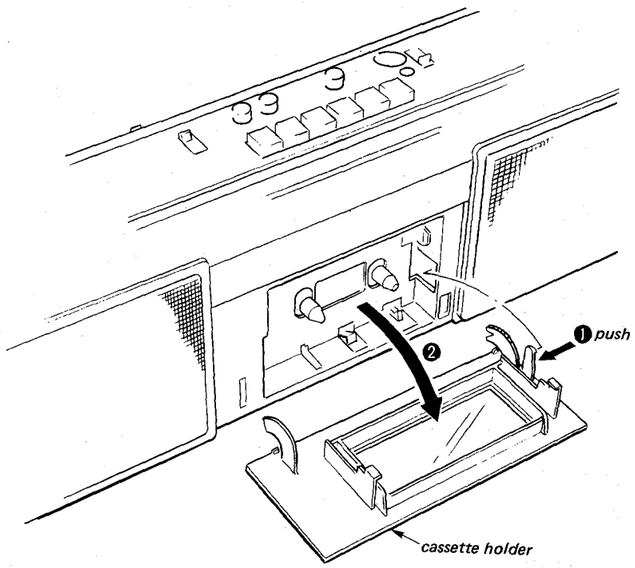


SECTION 2
DISASSEMBLY

2-1. REMOVAL

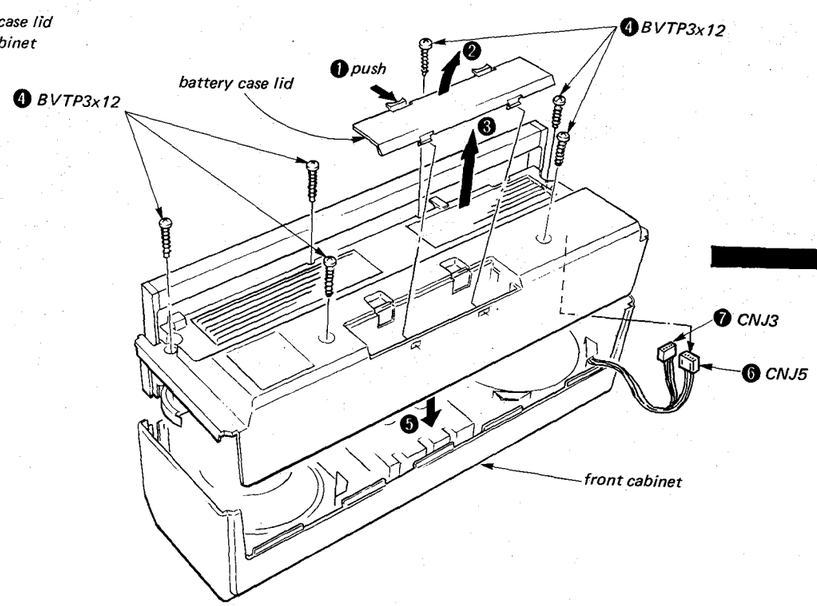
Note: Follow the disassembly procedure in the numerical order given.

CASSETTE HOLDER

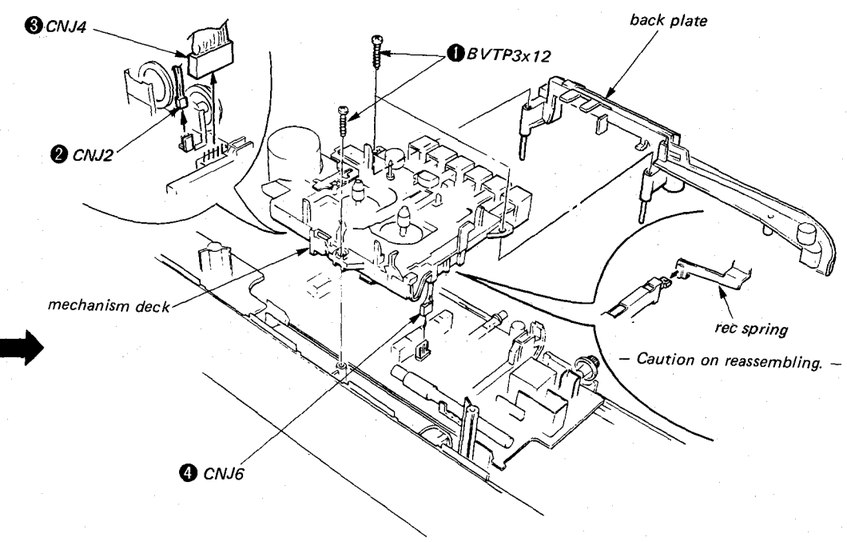


BATTERY CASE LID AND FRONT CABINET

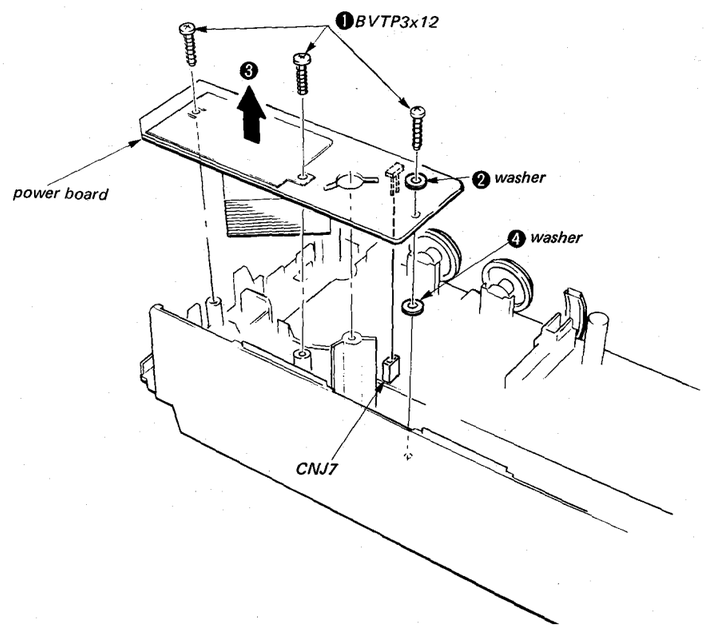
❶–❸ : battery case lid
❹–❼ : front cabinet



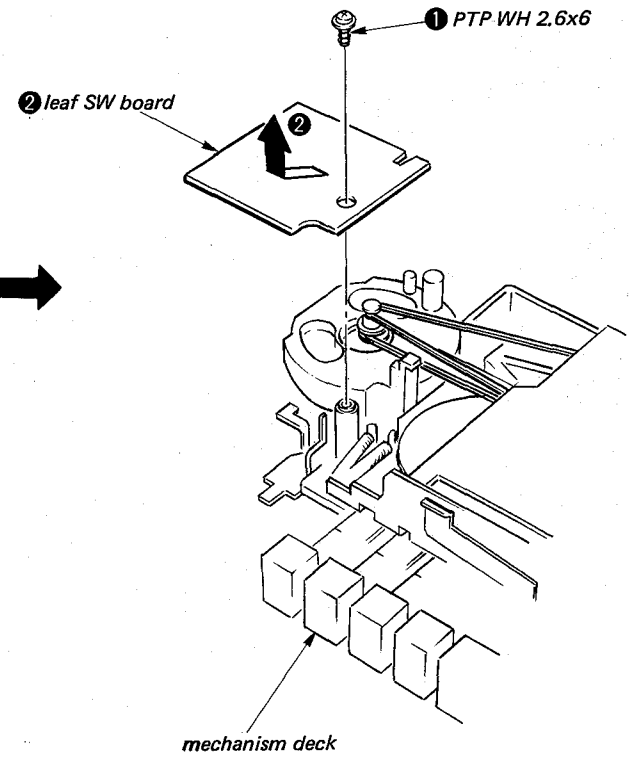
MECHANISM DECK



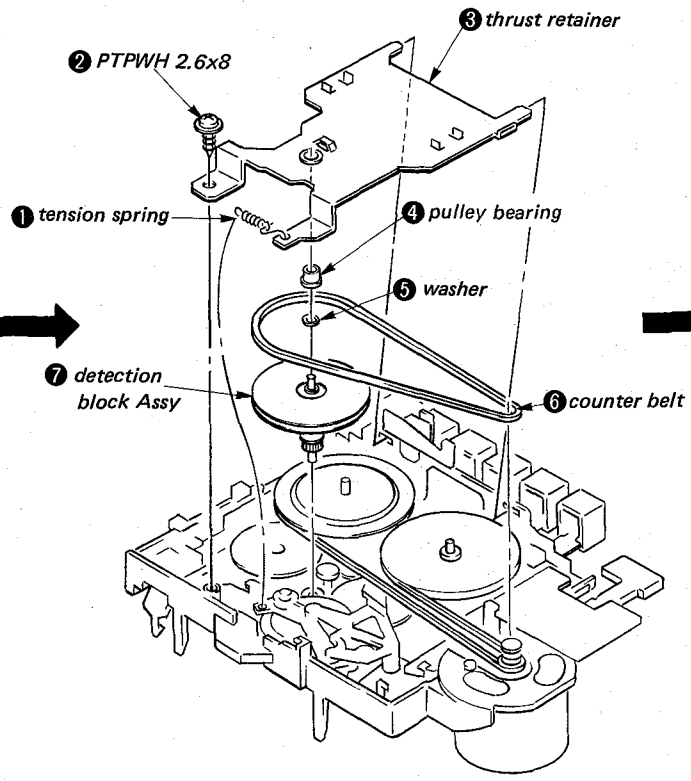
POWER BOARD



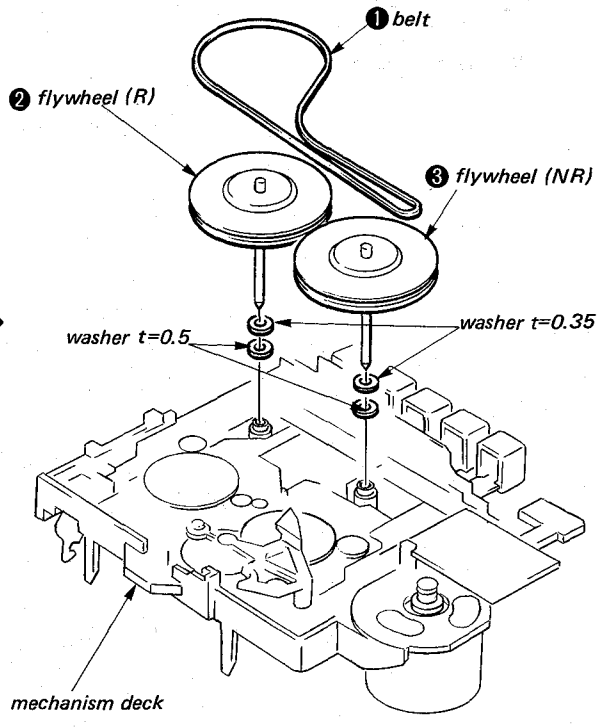
LEAF SW BOARD



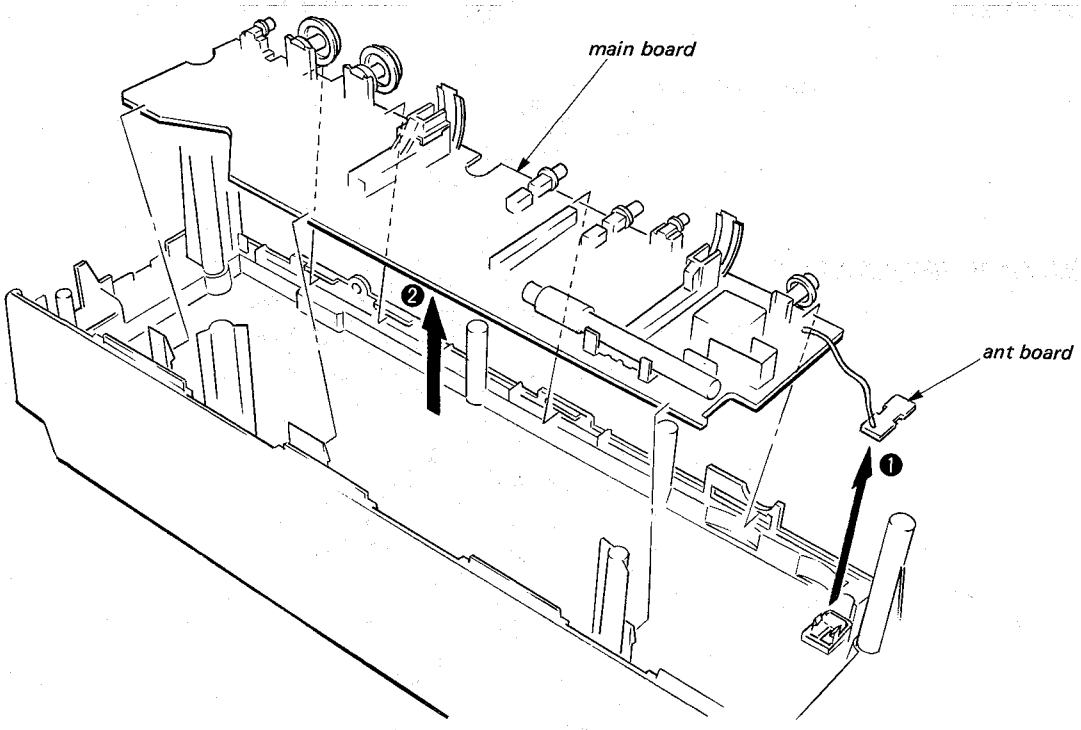
DETECTION BLOCK



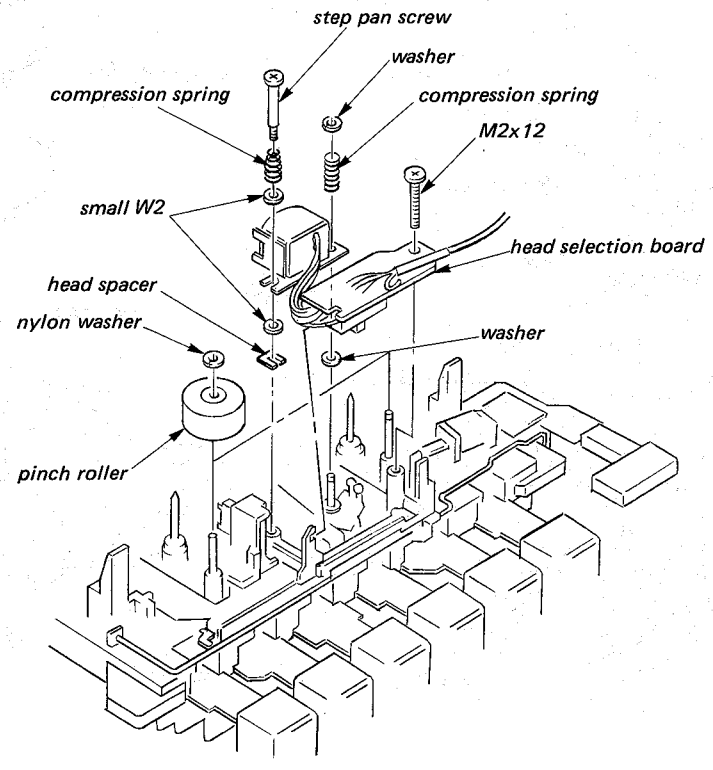
FLYWHEEL



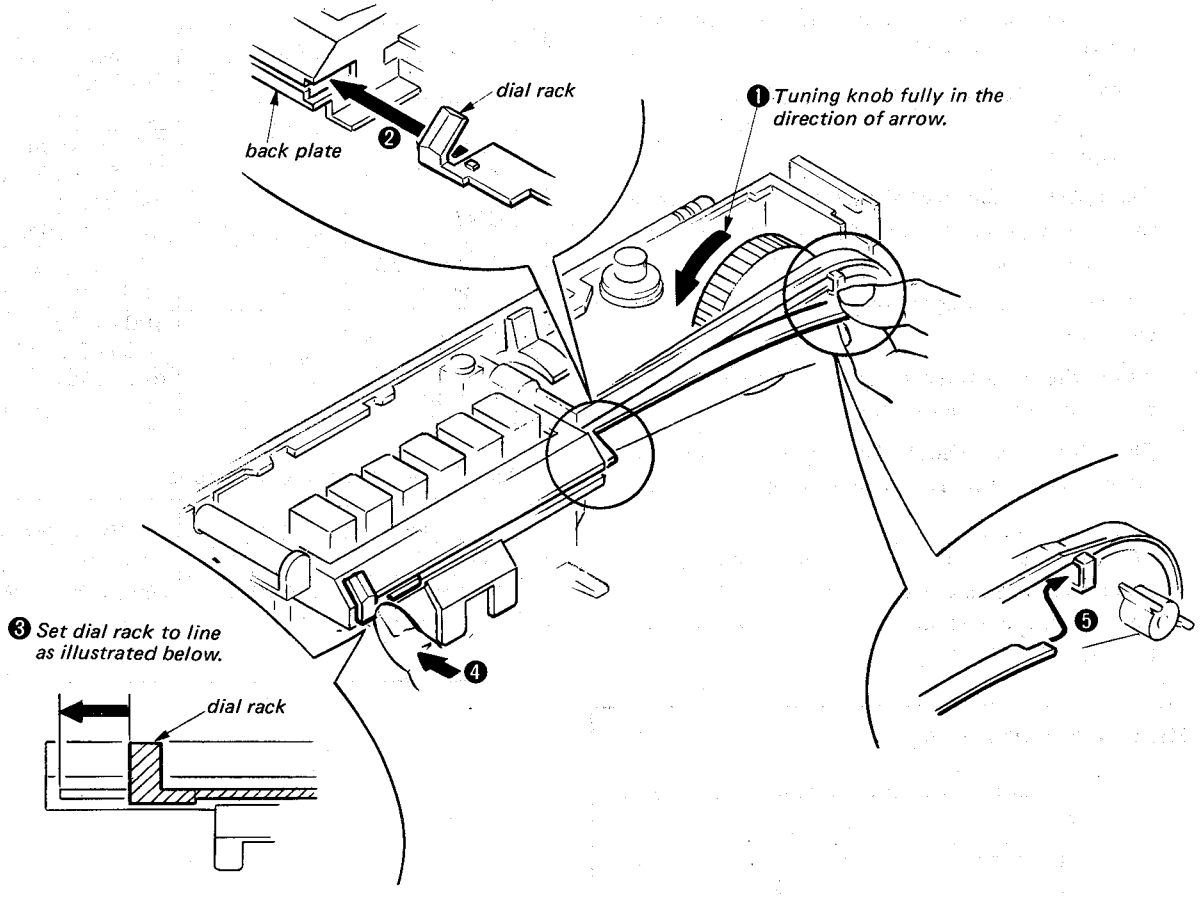
MAIN BOARD



REC/PB HEAD AND PINCH ROLLER



2-2. POINTER DRIVE BLOCK REINSTALLATION



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. The adjustments should be performed in the order given in this service manual.
   The adjustments should be performed for both L-CH and R-CH.

Torque Measurement

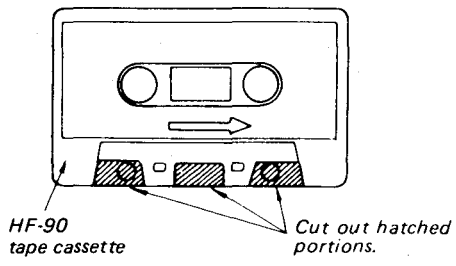
Torque	Torque meter	Meter reading
Forward	CQ-102C	28–55g·cm (0.39–0.76oz·inch)
Forward Back Tension		2.5–5.5g·cm (0.03–0.08oz·inch)
Riverse	CQ-102RB	28–55g·cm (0.39–0.76oz·inch)
Riverse Back Tension		2.5–5.5g·cm (0.03–0.08oz·inch)
Fast Forward	CQ-201B	100–180g·cm (1.39–2.5oz·inch)
Rewind		95–145g·cm (1.32–2.01oz·inch)

Tape Pulling Force Measurement

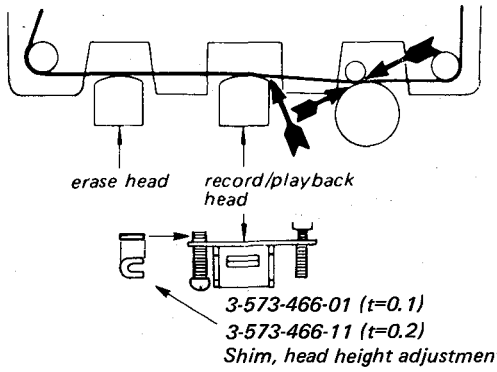
Torque	Meter	Meter reading
Forward	CQ-403	more than 170g (more than 6.02oz)
Riverse	CQ-403R	

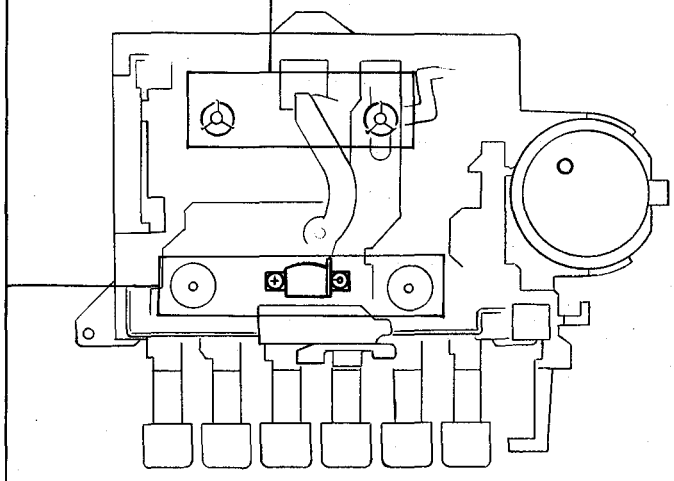
Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at the portions shown by arrow.





3-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

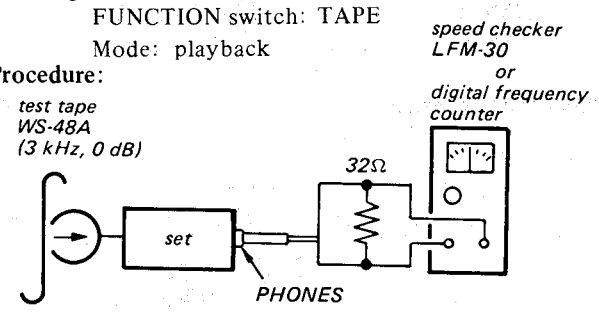
Tape Speed Adjustment

FWD, REV

Setting:

FUNCTION switch: TAPE
Mode: playback

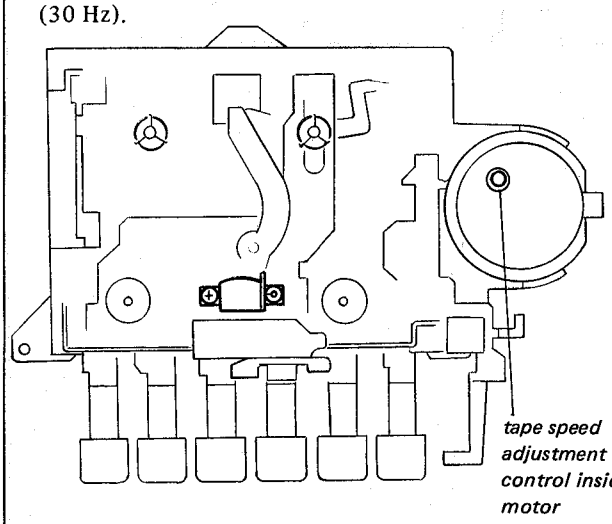
Procedure:



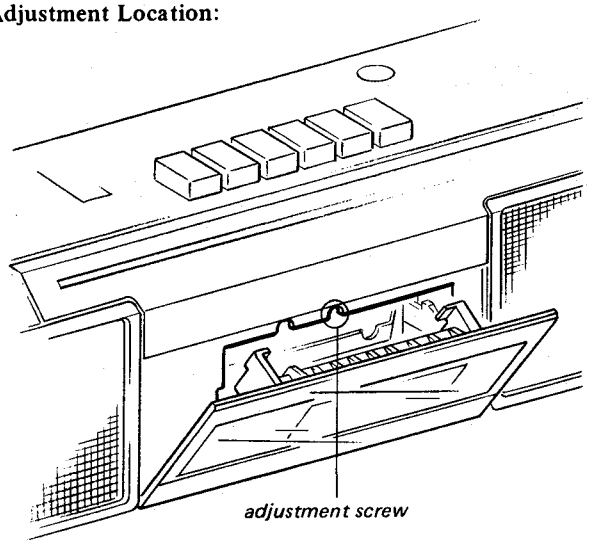
Specification:

Speed checker	Digital frequency counter
−1.3 to +1.2%	2,960 to 3,035 Hz

Frequency difference between the beginning and the end of the tape should be within 1 % (30 Hz).



Adjustment Location:



Record/Playback Head Azimuth Adjustment

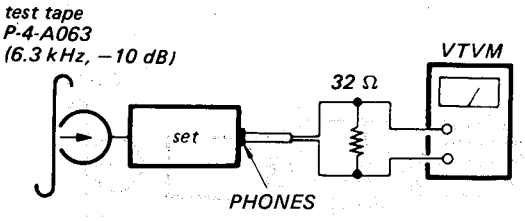
FWD, REV

Setting:

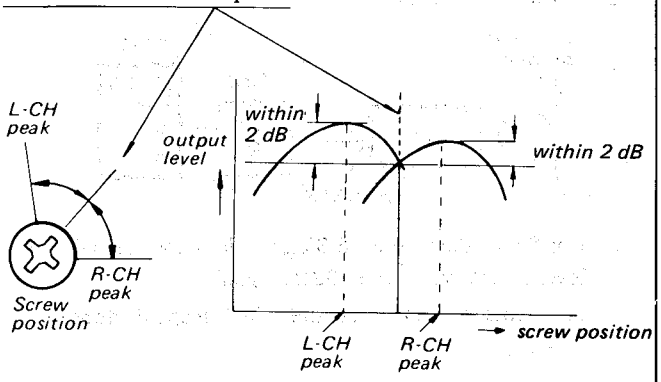
FUNCTION switch: TAPE

Procedure:

1. Mode: playback

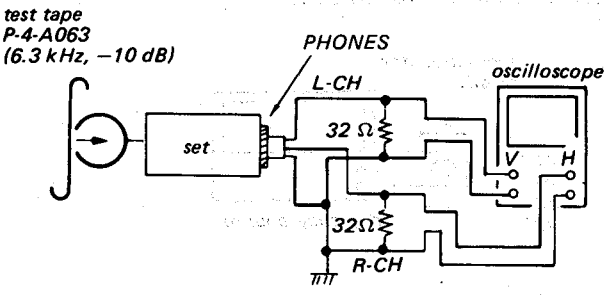


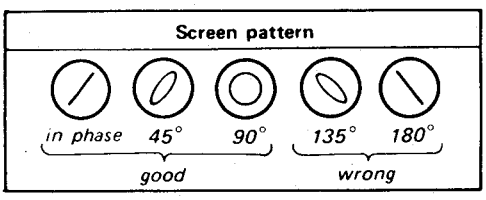
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 2 dB of peak.



Note: Finish the screw adjustment with a turn in the clockwise direction.
After the adjustment, lock the adjustment screw.

3. Phase Check
Mode: playback





Record Bias/OSC Frequency Adjustment

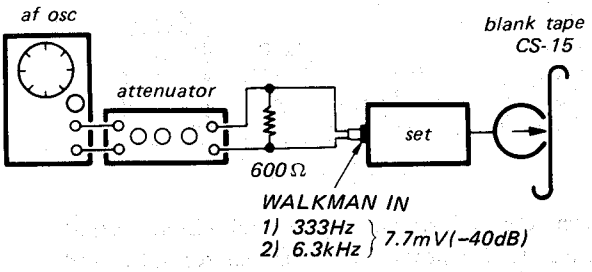
FWD

Setting:

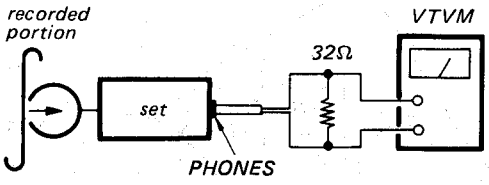
FUNCTION switch: TAPE
Mode: record (without signal)

Procedure:

1. Mode: record

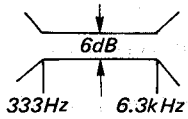


2. Mode: playback

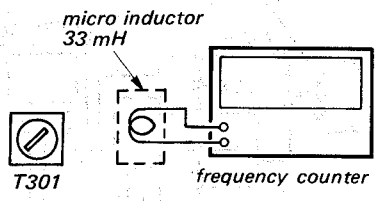


3. Confirm that the 6.3kHz playback signal level is relative to the 333Hz signal.

   If necessary, unsolder the T301 Repeat steps 1 – 3.



4. Bring the micro inductor connected to a frequency counter close to T301.

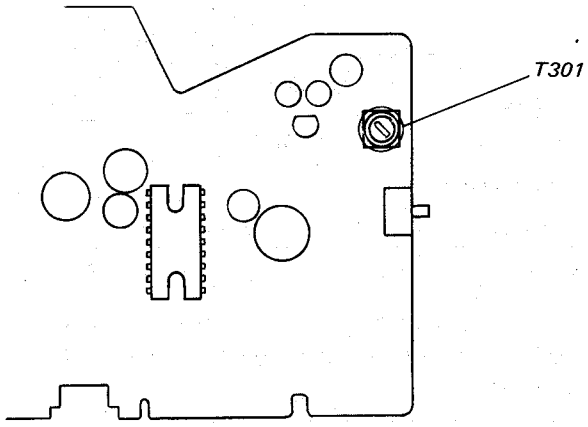


5. Adjust T301 for the specified value on the frequency counter.

   Specification:

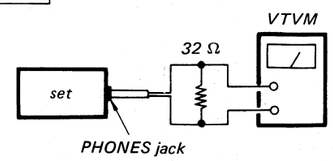
   ISS 1. . . . . 52 kHz±0.3 kHz
   ISS 2. . . . . 49 kHz±0.3 kHz

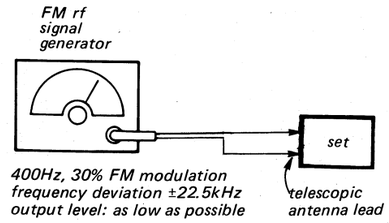
Adjustment Location:



3-3. RADIO SECTION ELECTRICAL ADJUSTMENTS

FM SECTION

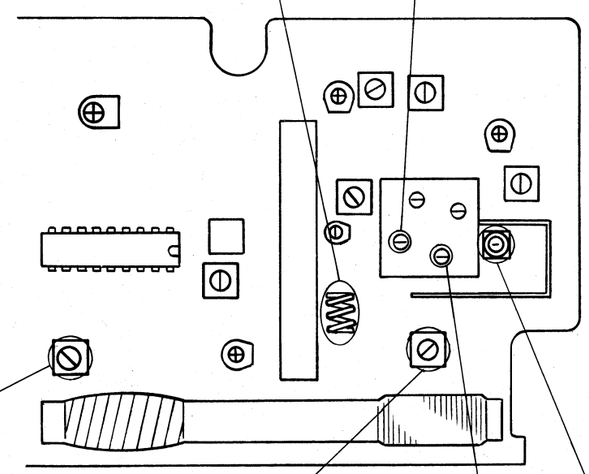




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

- FM tracking adjustment should be made after FM IF alignment.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.3MHz	107.8MHz
L1	CT1-1



10.7MHz	T7
Minimum distotion	
FM IF ADJUSTMENT (2)	

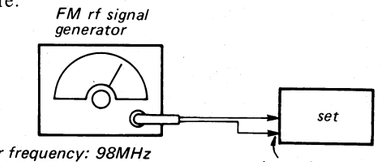
T1
10.7MHz
Adjust for a maximum reading on VTVM.
FM IF ADJUSTMENT (1)

CT1-2	L2
107.8MHz	87.3MHz
Adjust for a maximum reading on VOM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

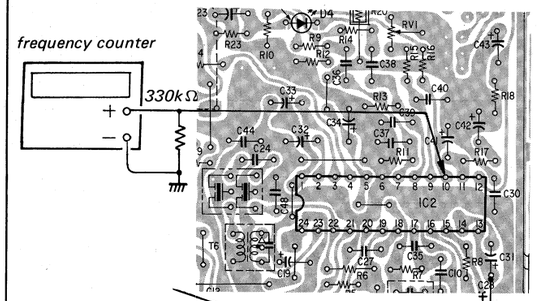
VCO Adjustment

Setting:
FM MONO/ST switch: FM ST

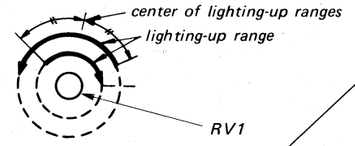
A) Regular Method
Procedure:

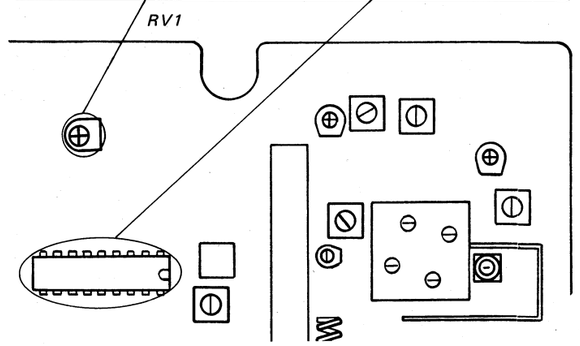


1. Connect frequency counter to it as shown below.
2. Tune the set to 98MHz.
3. Adjust RV1 for 38kHz ± 0.1kHz reading on the frequency counter.



B) Simple Method
Procedure:
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.

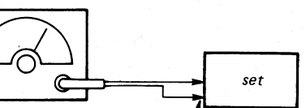




vitch: FM ST

nod

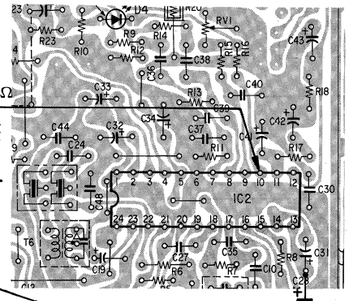
M rf signal
nerator



y: 98MHz
modulation
tion ± 22.5kHz
:2μV (55dB)

telescopic antenna lead

ency counter to it as shown below.
98MHz.
or 38kHz ± 0.1kHz reading on the
nter.



0.47μ

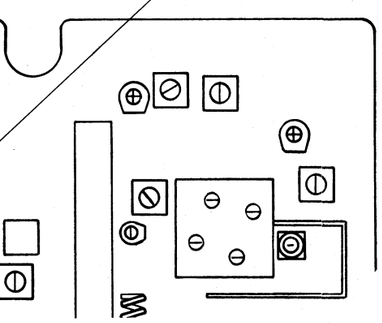
od

o the FM stereo broadcasting signal.
lockwise or counterclockwise and
lighting-up range of the FM STE-

t the center of the lighting-up range
as shown below.

center of lighting-up ranges
lighting-up range

RV1

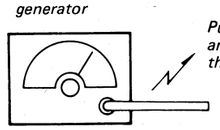


MW/LW/SW SECTION

MW/LW

Setting:
FUNCTION switch: RADIO
BAND switch: MW/LW

AM rf signal generator



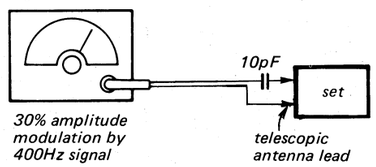
Put the lead-wire antenna close to the set.

30% amplitude modulation by 400Hz signal

SW

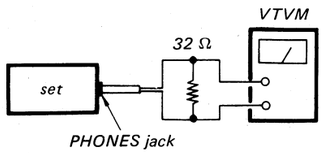
Setting:
FUNCTION switch: RADIO
BAND switch: SW

AM rf signal generator



30% amplitude modulation by 400Hz signal

telescopic antenna lead



PHONES jack

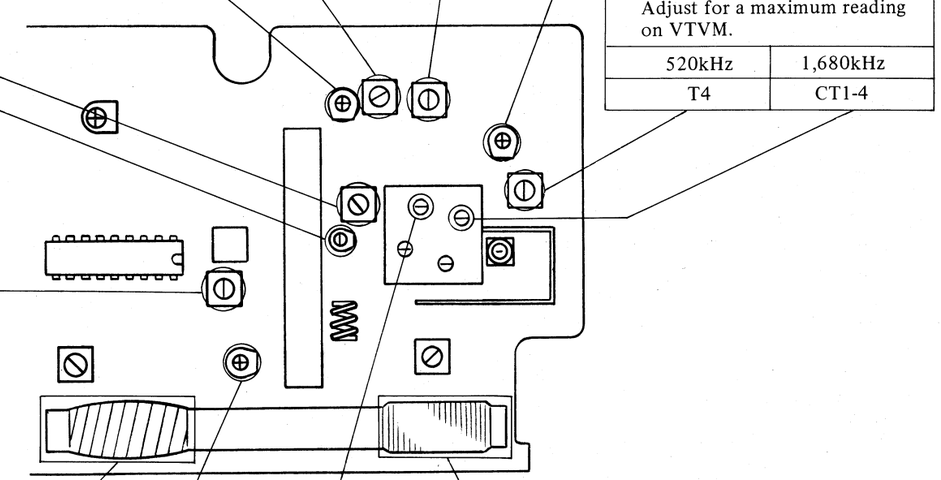
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- Set the FINE TUNING knob in the center position for the SW adjustments.

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
300kHz	145kHz
CT5	T5

SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
5.8MHz	18.4MHz
T3	CT4

SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
5.8MHz	T2
18.4MHz	CT2

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
520kHz	1,680kHz
T4	CT1-4



AEP:455kHz	T6
Adjust for a maximum reading on VTVM.	
AM IF ALIGNMENT	

L3-2	CT3
160kHz	260kHz
Adjust for a maximum reading on VTVM.	
LW TRACKING ADJUSTMENT	

CT1-3	L3-1
1,400kHz	620kHz
Adjust for a maximum reading on VTVM.	
MW TRACKING ADJUSTMENT	

SECTION 4
DIAGRAMS

● NOTE FOR SCHEMATIC DIAGRAM

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ⇨ : signal path.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- △ : internal component.
- ⊣W⊢ : nonflammable resistor.
- Switch

Ref. No.	Switch	Position
S1	BAND	FM
S301	REC/PB	PB
S302	FUNCTION	RADIO
S303	REC MUTE	OFF
S304	REV MODE	OFF
S305	FM ST/MONO, ISS	FM ST, 1
S306	TAPE SELECT	NORMAL
S401	HIGH FILTER	OFF
S402	HIGH BOOST	OFF
S403	LOW BOOST	OFF
S501	POWER	OFF
S502	AMS	OFF
S503	SHUT OFF	OFF
S601	DIRECTION	OFF

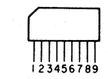
- ▬▬ : B+ bus.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).

  no mark : FM
  ( ) : MW/LW/SW
  (( )) : REC
  ▶ : FWD
  ◀ : REV
  < > : AMS

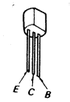
- Waveforms are taken to ground in REC mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

● Semiconductor Leard Layouts

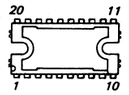
LA2010
TA7358AP



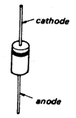
2SC2001-K1



LA4500



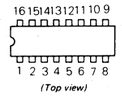
RD6.2E-B2
1S2687S-1
10E2



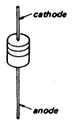
M51535P

SLP146B-60

TA7668BP



1SS119



2SB734
2SD773-4

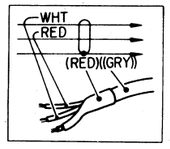
DTC143TS
2SC634SP
2SC2458L-BL
2SC2603-F
2SD1012

Semiconductor Location

Ref. No.	Location
D1	G-1
D2	E-1
D3	F-1
D4	F-4
D301	I-14
D302	F-15
D701	B-4
D901	B-13
D902	B-12
D903	A-12
D904	B-12
IC1	H-2
IC2	G-5
IC301	H-8
IC302	G-13
IC303	G-11
Q101	G-7
Q102	G-7
Q201	H-9
Q202	H-9
Q301	I-9
Q302	G-8
Q303	H-7
Q304	H-14
Q305	H-15
Q306	F-12
Q307	F-11
Q701	A-5
Q702	A-4

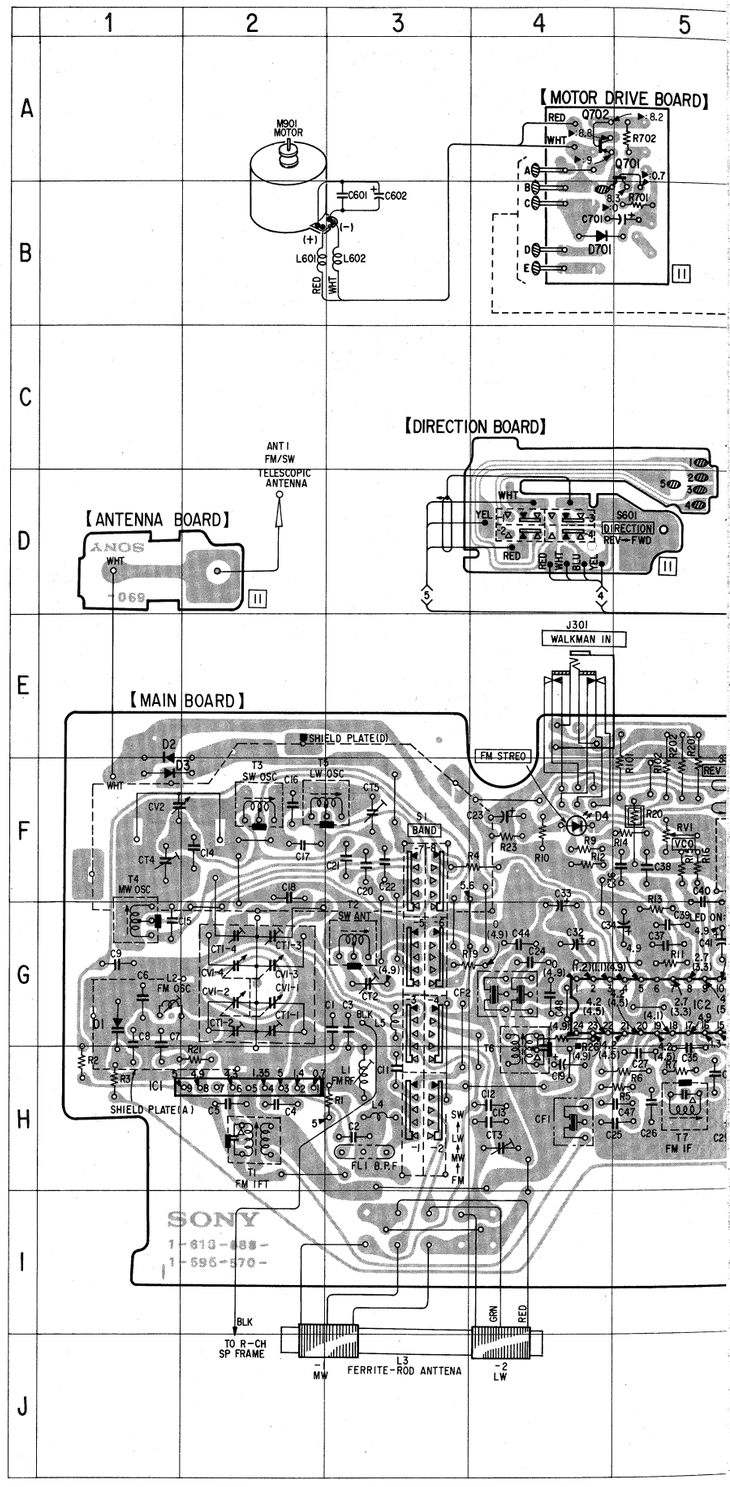
Note:

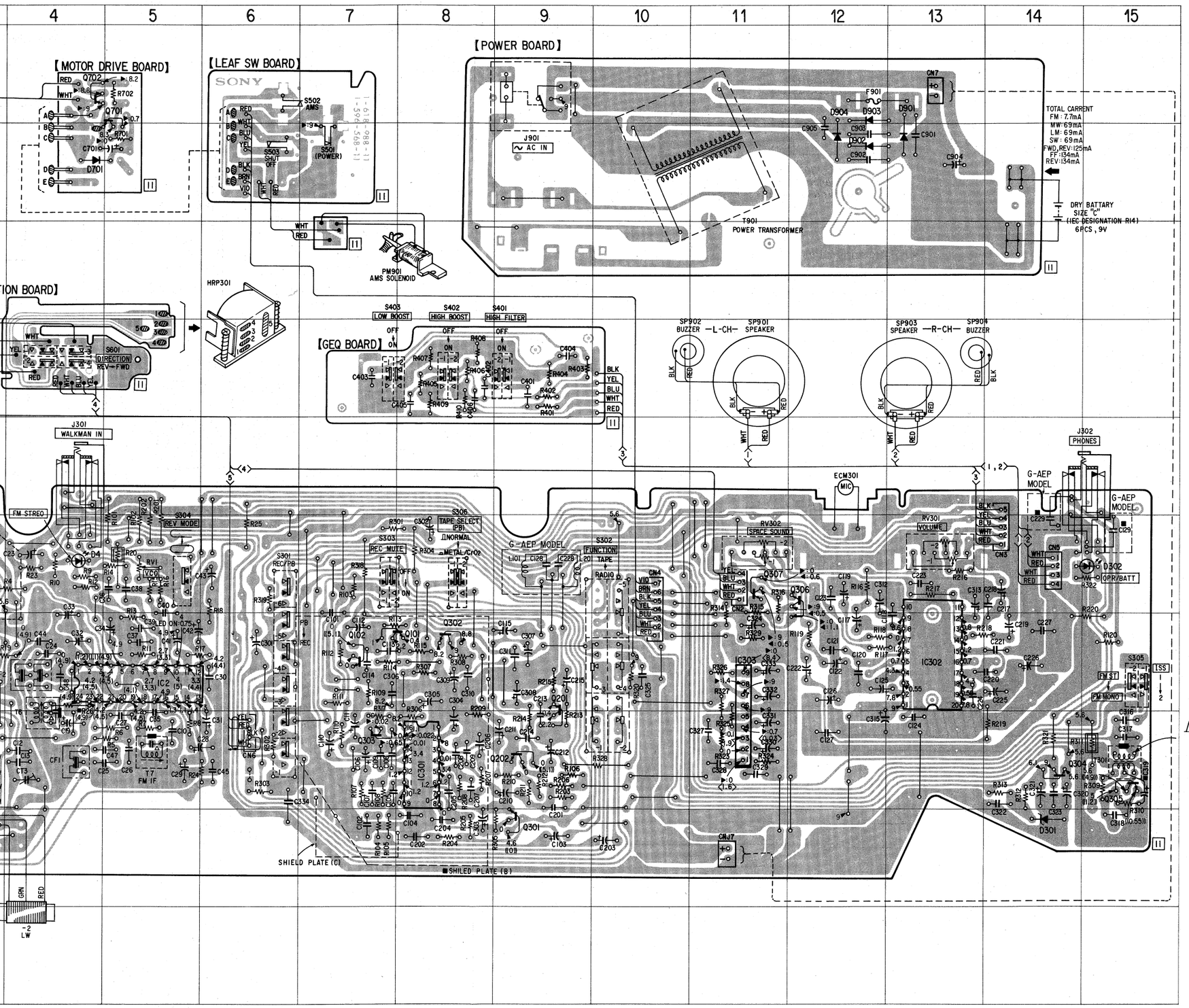
- Color code of sleeving over the end of the jacket.



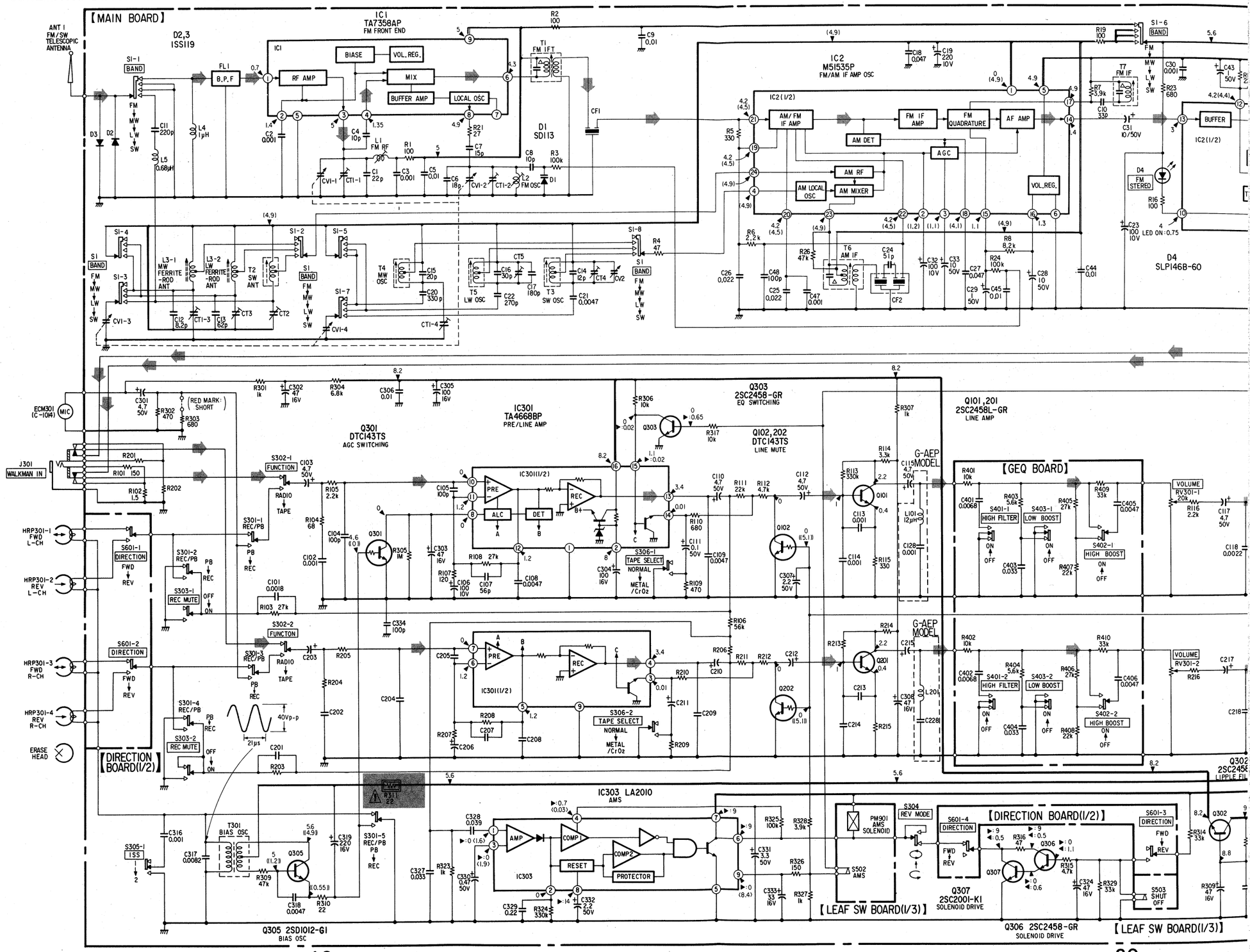
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊡ : indicates side identified with part number.

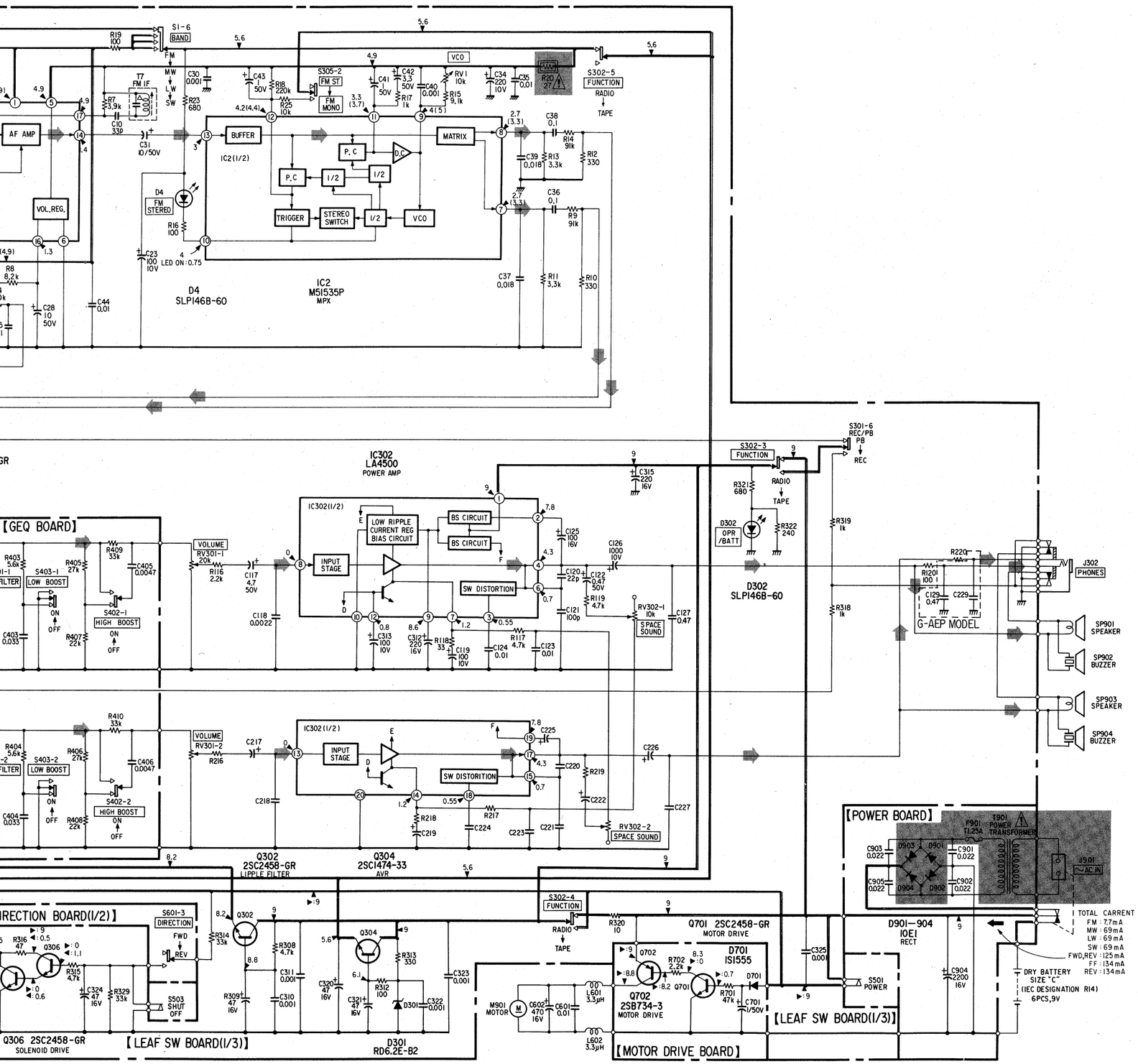
4-1. MOUNTING DIAGRAM




4
5
6
7
8
9
10
11
12
13
14
15
【MOTOR DRIVE BOARD】
【LEAF SW BOARD】
【POWER BOARD】
【GEQ BOARD】
【TION BOARD】
J901
AC IN
T901
POWER TRANSFORMER
F901
CN7
D901
D902
D903
D904
C901
C902
C903
C904
C905
TOTAL CARRENT
FM : 7.7mA
MW: 69mA
LM: 69mA
SW : 69mA
FWD,REV: 125mA
FF: 134mA
REV: 134mA
DRY BATTARY
SIZE "C"
(IEC DESIGNATION R14)
6PCS , 9V
S502
AMS
S503
SHUT OFF
S501
(POWER)
PM901
AMS SOLENOID
HRP301
S403
LOW BOOST
S402
HIGH BOOST
S401
HIGH FILTER
S601
DIRECTION
REV-FWD
SP902
BUZZER
L-CH
SP901
SPEAKER
SP903
SPEAKER
R-CH
SP904
BUZZER
J301
WALKMAN IN
J302
PHONES
ECM301
MIC
G-AEP
MODEL
S304
REV MODE
S306
TAPE SELECT
(PB)
NORMAL
METAL/CrO2
S303
REC MUTE
S302
FUNCTION
TAPE
RADIO
S301
REC/PB
RV302
SPACE SOUND
RV301
VOLUME
IC303
IC302
Q307
Q306
Q302
Q301
Q201
Q202
Q101
Q102
D301
D302
S305
TSS
FM ST
FM MONO
CN5
CN6
CN7
CN2
CN4
CRJ7
T7
FM IF
SHIELD PLATE (C)
SHILED PLATE (B)
FM STEREO
LED ON
PB
REC
OFF
ON
40Vp-p
2μs
GRN
RED
LW

4-2. SCHEMATIC DIAGRAM • See page 16 for Note




S1-6 BAND
FM
MW
LW
SW
R19 100
T7 FM IF
C30 0.001
C43 1 50V
R18 220k
S305-2 FM ST
FM MONO
C41 1 50V
C42 3.3 50V
C40 0.001
R17 1k
RV1 10k
R15 9.1k
C34 220 10V
C35 0.01
R20 27
S302-5 FUNCTION
RADIO
TAPE
R7 3.9k
C10 33P
R23 680
R25 10k
C31 10/50V
AF AMP
BUFFER
IC2(1/2)
P.C
I/2
D.C
MATRIX
C38 0.1
R14 91k
C39 0.018
R13 3.3k
R12 330
C36 0.1
R9 91k
C37 0.018
R11 3.3k
R10 330
D4 FM STEREO
R16 100
C23 100 10V
LED ON:0.75
TRIGGER
STEREO SWITCH
VCO
VOL.REG.
R8 8.2k
C28 10 50V
C44 0.01
D4 SLP146B-60
IC2 M51535P MPX
IC302 LA4500 POWER AMP
S301-6 REC/PB PB REC
S302-3 FUNCTION
R321 680
D302 OPR/BATT
R322 240
D302 SLP146B-60
R319 1k
R318 1k
C315 220 16V
R220
R201 100
C129 0.47
C229
G-AEP MODEL
J302 PHONES
SP901 SPEAKER
SP902 BUZZER
SP903 SPEAKER
SP904 BUZZER
【GEQ BOARD】
R403 5.6k
R405 27k
R409 33k
C405 0.0047
S403-1 LOW BOOST
S402-1 HIGH BOOST
ON
OFF
R407 22k
C403 0.033
VOLUME
RV301-1 20k
R116 2.2k
C117 4.7 50V
C118 0.0022
IC302(1/2)
INPUT STAGE
LOW RIPPLE CURRENT REG BIAS CIRCUIT
BS CIRCUIT
BS CIRCUIT
SW DISTORTION
C313 100 10V
R118 33
C312 220 16V
C119 100 10V
C124 0.01
R117 4.7k
C123 0.01
C125 100 16V
C126 1000 10V
C120 22p
C122 0.47 50V
R119 4.7k
C121 100p
RV302-1 10k SPACE SOUND
C127 0.47
R410 33k
R404 5.6k
R406 27k
C406 0.0047
S403-2 LOW BOOST
S402-2 HIGH BOOST
C404 0.033
R408 22k
VOLUME
RV301-2
R216
C217
C218
IC302(1/2)
INPUT STAGE
SW DISTORTION
C225
C220
R219
C222
C226
C227
R218
C219
C224
C223
C221
R217
RV302-2 SPACE SOUND
Q302 2SC2458-GR RIPPLE FILTER
Q304 2SC1474-33 AVR
【POWER BOARD】
F901 T1.25A
T901 POWER TRANSFORMER
J901 AC IN
C903 0.022
C901 0.022
C905 0.022
C902 0.022
D903
D901
D904
D902
D901-904 10E1 RECT
C904 2200 16V
TOTAL CARRENT
FM : 7.7mA
MW : 69mA
LW : 69mA
SW : 69mA
FWD,REV : 125mA
FF : 134mA
REV : 134mA
DRY BATTERY SIZE "C" (IEC DESIGNATION R14) 6PCS,9V
【DIRECTION BOARD(1/2)】
S601-3 DIRECTION
FWD
REV
S503 SHUT OFF
R314 33k
R316 47
Q306
R315 4.7k
C324 47 16V
R329 33k
R308 4.7k
C311 0.001
C310 0.001
R309 47 16V
C320 47 16V
C321 47 16V
R313 330
R312 100
D301
C322 0.001
C323 0.001
Q306 2SC2458-GR SOLENOID DRIVE
【LEAF SW BOARD(1/3)】
D301 RD6.2E-B2
S302-4 FUNCTION
RADIO
TAPE
R320 10
Q701 2SC2458-GR MOTOR DRIVE
Q702
D701 IS1555
R702 2.2k
Q701
R701 47k
C701 1/50V
C325 0.001
S501 POWER
M901 MOTOR
C602 470 16V
C601 0.01
L601 3.3μH
L602 3.3μH
Q702 2SB734-3 MOTOR DRIVE
【MOTOR DRIVE BOARD】
【LEAF SW BOARD(1/3)】

SECTION 5
EXPLODED VIEWS

NOTE:

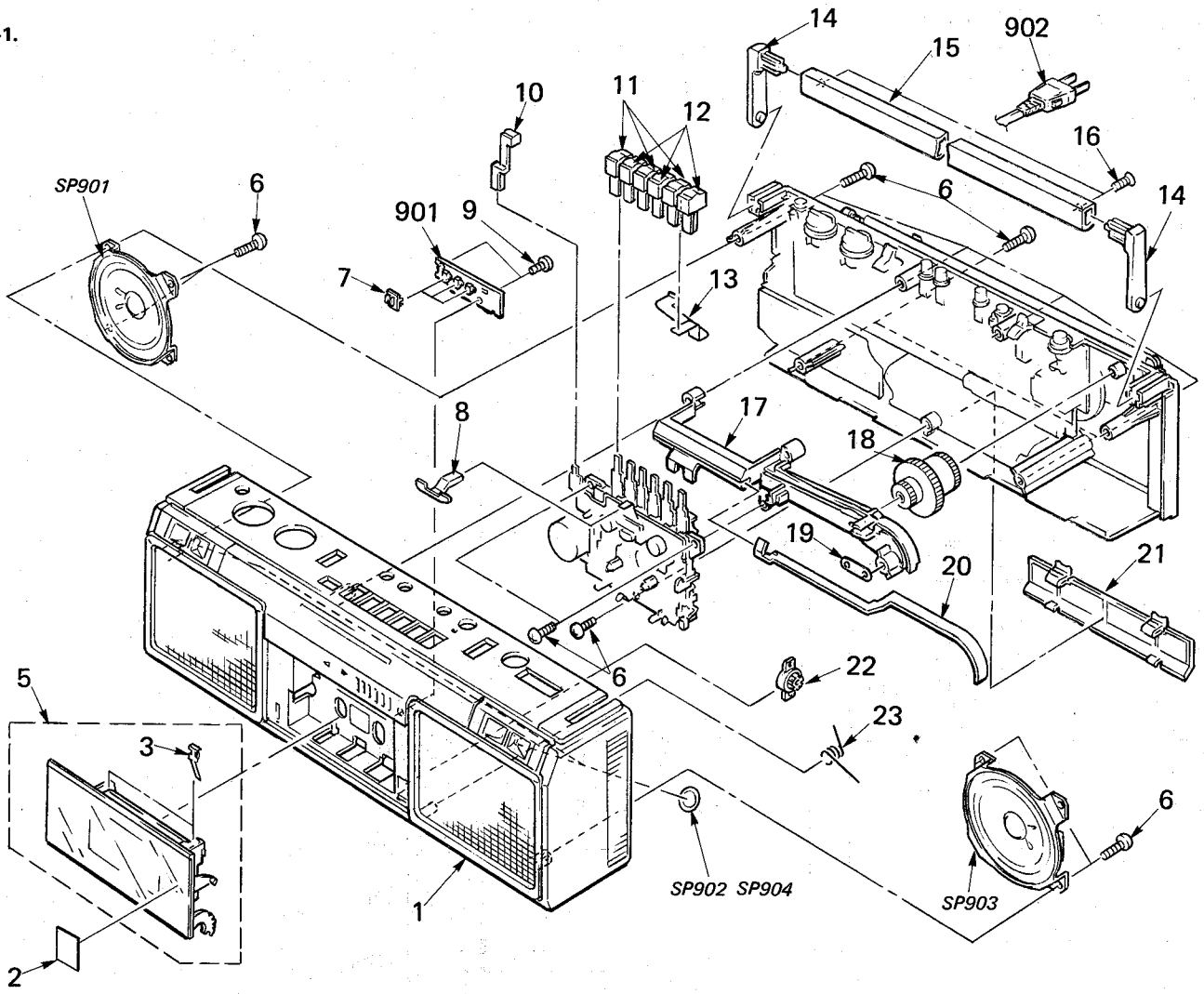
The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

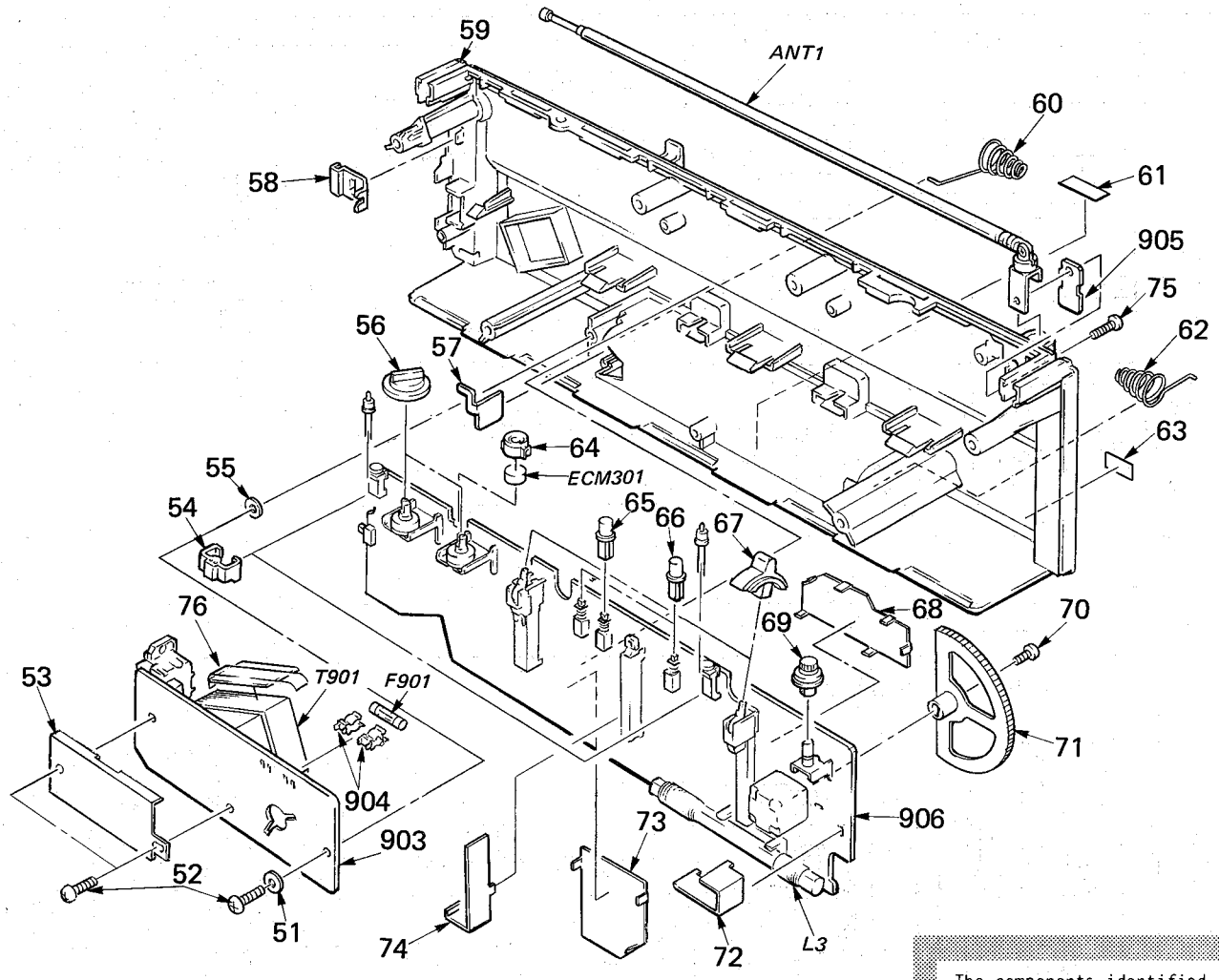
5-1.



No.	Part No.	Description	Remarks
1	X-3333-720-1	(BLACK)....CABINET (FRONT)	
	X-3333-721-1	(SILVER)...CABINET (FRONT)	
2	3-703-707-01	STICKER, SONY SYMBOL (21)	
3	3-308-823-01	SPRING	
5	X-3333-711-1	CASSETTE HOLDER ASSY	
6	7-685-648-71	SCREW +BVTP 3X12 TYPE2 N-S	
7	3-333-704-01	KNOB, GEQ	
8	*3-333-707-01	LEVER, INDICATION	
9	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
10	3-333-706-01	BUTTON, DIRECTION	
11	3-333-719-01	BUTTON BLOCK, MD	
12	3-333-719-11	BUTTON BLOCK, MD	
13	*3-333-711-01	SPRING	
14	3-319-946-21	PLATE, SIDE, HANDLE	
15	3-333-731-01	(BLACK)....HANDLE	
	3-333-731-11	(SILVER)...HANDLE	

No.	Part No.	Description	Remarks
16	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
17	*3-333-727-01	PLATE, BACK	
18	3-319-905-31	KNOB, TUNING	
19	*4-910-260-01	PLATE, CONDUCTION (B)	
20	*3-333-718-01	RACK, POINTER	
21	3-333-717-01	(BLACK)....LID, BATTERY CASE	
	3-333-717-11	(SILVER)...LID, BATTERY CASE	
22	3-319-224-01	DAMPER, SMALL	
23	3-333-757-01	SPRING, TORSION	
901	*1-618-987-11	PC BOARD, GEQ	
902	⚠1-555-234-00	CORD, POWER	
PM901	1-454-355-00	SOLENOID, PLUNGER	
SP901	1-503-634-11	SPEAKER	
SP902	*1-529-039-11	BUZZER	
SP903	1-503-634-11	SPEAKER	
SP904	*1-529-039-11	BUZZER	

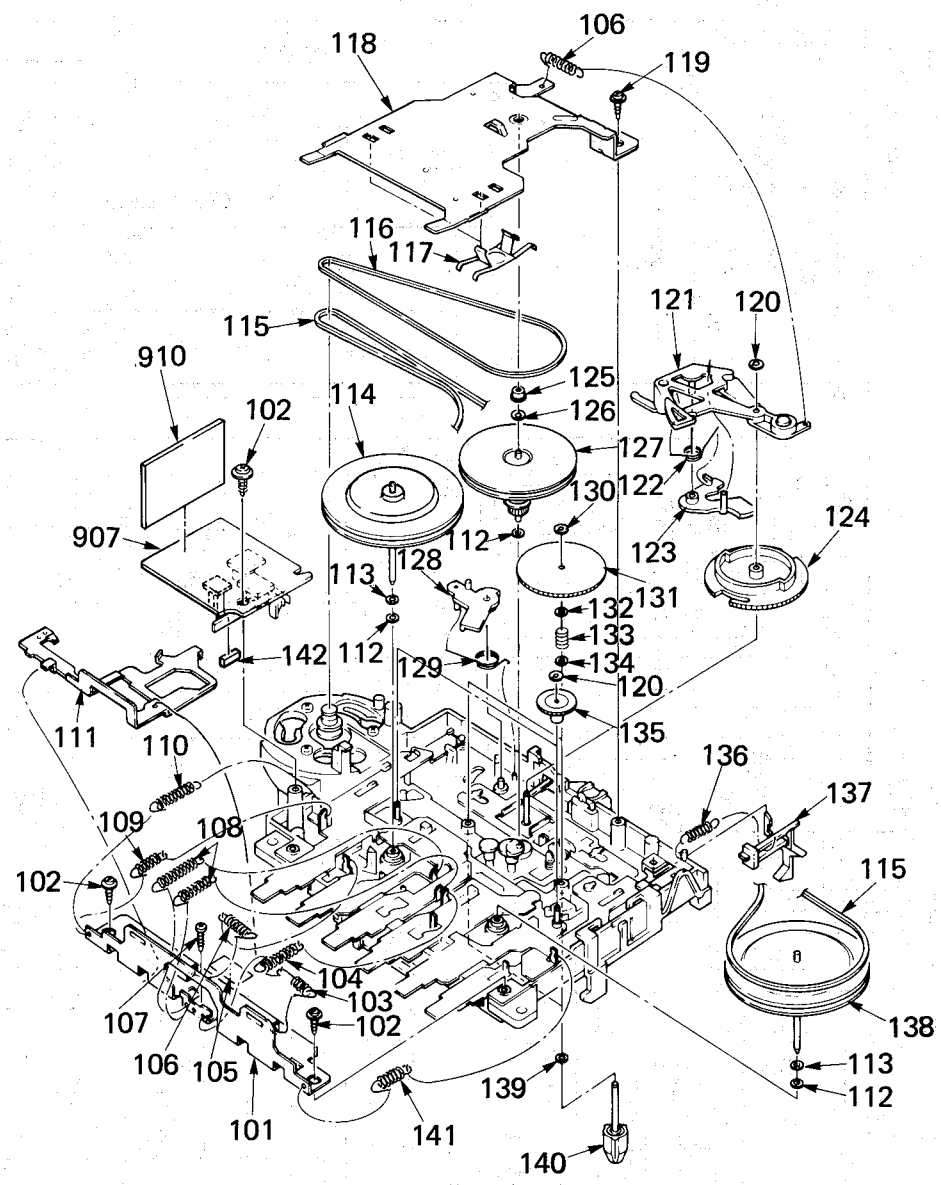
5-2.



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
51	3-564-542-00	WASHER, FIBER	
52	7-685-648-71	SCREW +BVTP 3X12 TYPE2 N-S	
53	*3-333-734-01	COVER, POWER	
54	*3-319-526-01	HOLDER (OP), LED	
55	*3-333-771-01	WASHER	
56	3-319-951-01	KNOB, VOLUME	
57	3-333-709-01	TERMINAL BOARD, PLUS	
58	3-333-705-01	KNOB, ISS	
59	3-333-730-11	(BLACK)....CABINET (REAR)	
	3-333-730-41	(SILVER)...CABINET (REAR)	
60	3-333-710-01	SPRING	
61	3-527-213-00	LABEL, SERIAL NUMBER	
62	3-322-611-01	SPRING (B)	
63	3-333-755-01	(G-AEP)...MARK (LABEL) DBP	
64	3-319-915-01	CUSHION, MICROPHONE	
65	3-319-903-01	BUTTON, REC MUTE	
66	3-319-903-11	BUTTON, REC MUTE	
67	3-319-950-01	KNOB	
68	*3-333-759-01	PLATE (D), SHIELD	
69	3-333-703-01	KNOB, FINE TU	
70	7-621-770-87	SCREW +P 2.6X5	
71	3-319-910-01	DRUM, DIAL	
72	*3-333-712-01	PLATE (A), SHIELD	
73	*3-333-738-01	PLATE (B), SHIELD	
74	*3-333-739-01	PLATE (C), SHIELD	
75	7-682-549-04	SCREW +B 3X10	
76	3-333-758-01	PLATE, SHIELD, POWER	
903	*1-618-989-11	PC BOARD, POWER	
904	1-533-162-00	HOLDER, FUSE	
905	*1-618-694-11	PC BOARD, ANT	
906	*A-3260-383-A	MOUNTED PCB, MAIN	
ANT1	1-501-262-00	ANTENNA, TELESCOPIC	
ECM301	8-814-186-00	MICROPHONE UNIT (C-1014)	
F901 ⚠	1-532-285-00	FUSE, TIME-LAG	
L3	1-402-218-11	ANTENNA, FERRITE-ROD (LW/MW)	
T901 ⚠	1-448-541-11	TRANSFORMER, POWER	

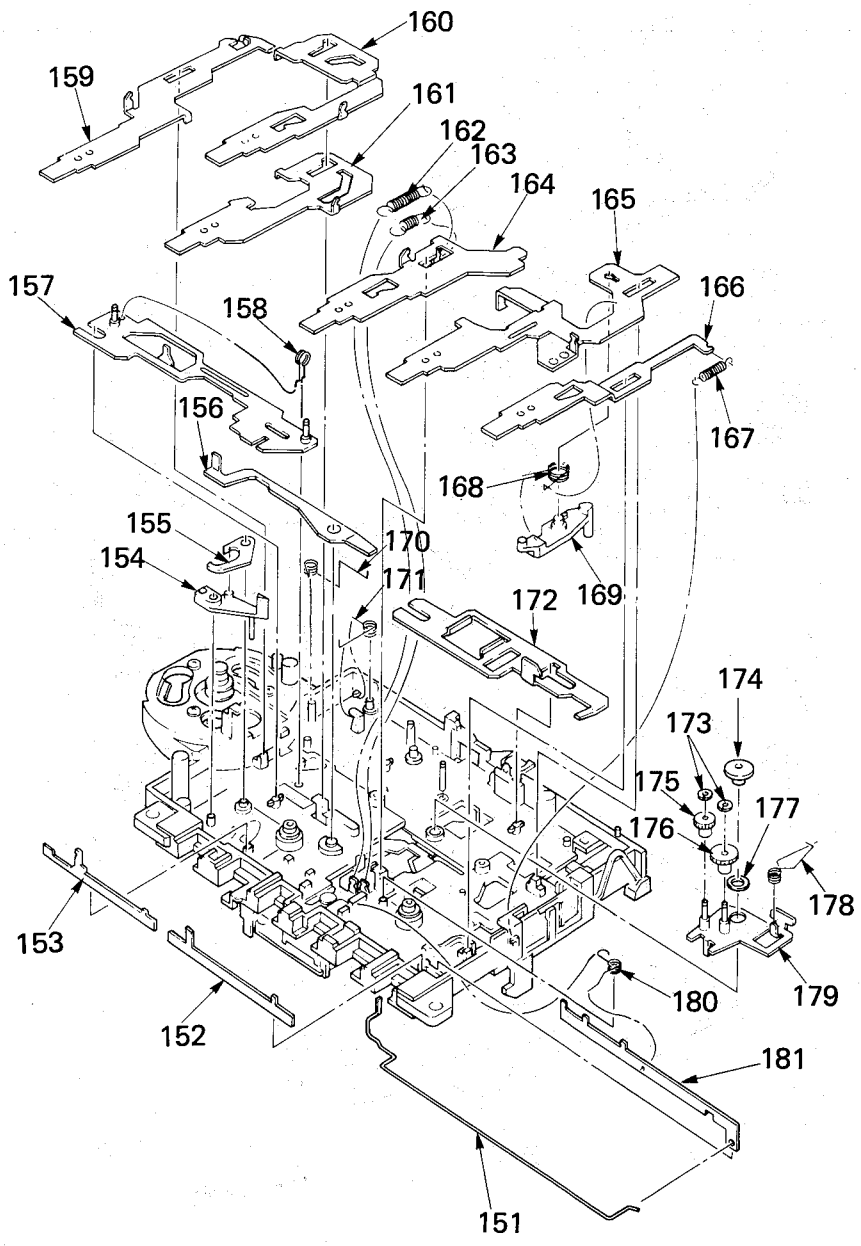
5-3.



No.	Part No.	Description	Remarks
101	*3-322-518-01	RETAINER, LEVER	
102	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
103	3-330-605-01	SPRING, TENSION	
104	3-322-526-01	SPRING, TENSION (POWER TENSION)	
105	3-831-441-11	CUSHION (T)	
106	3-322-527-01	SPRING, TENSION	
107	7-685-105-14	TPG +P 2X8, TYPE 2, NON-SLIT	
108	3-322-523-01	SPRING, TENSION	
109	3-322-522-01	SPRING, TENSION	
110	3-530-260-00	SPRING, TENSION	
111	*3-330-606-01	LEVER, SELECTION, S.OFF	
112	3-701-437-21	WASHER (t=0.5)	
113	3-701-437-41	WASHER (t=0.35)	
114	X-3330-601-1	FLYWHEEL (NR) ASSY	
115	3-322-533-01	BELT	
116	3-434-110-XX	BELT, COUNTER	
117	3-322-524-01	SPRING	
118	*3-322-519-01	RETAINER, THRUST	
119	7-687-234-11	SCREW (+ PTPWH) (2.6X8)	
120	3-307-948-01	WASHER, NYLON	
121	X-3322-506-1	LEVER (B) ASSY, OA	
122	3-322-534-01	SPRING	
123	3-322-551-01	LEVER (A), OA	

No.	Part No.	Description	Remarks
124	3-322-553-01	GEAR, CAM	
125	3-322-566-01	BEARING, PULLEY	
126	3-701-437-01	WASHER (t=0.13)	
	3-701-437-11	WASHER (t=0.25)	
127	X-3322-501-1	DETECTION BLOCK ASSY	
128	3-322-552-01	LEVER, GEAR LOCK	
129	3-322-574-01	SPRING	
130	3-322-672-01	WASHER, NYLON	
131	3-322-508-01	GEAR, REEL	
132	3-322-660-01	WASHER (B)	
133	3-321-541-01	SPRING, COMPRESSION	
134	3-322-659-01	WASHER (A)	
135	3-322-556-01	GEAR, FR	
136	3-313-384-01	SPRING, TENSION	
137	3-322-511-01	CLAW, ERASING PROTECTION	
138	X-3322-507-1	FLYWHEEL (R) ASSY	
139	3-545-715-00	WASHER	
140	X-3322-502-1	CLAW ASSY, REEL	
141	3-322-691-01	SPRING, TENSION	
142	9-911-815-01	CUSHION	
907	*1-618-988-11	PC BOARD, LEAF SW	
910	*1-619-691-11	PC BOARD, MOTOR DRIVING	

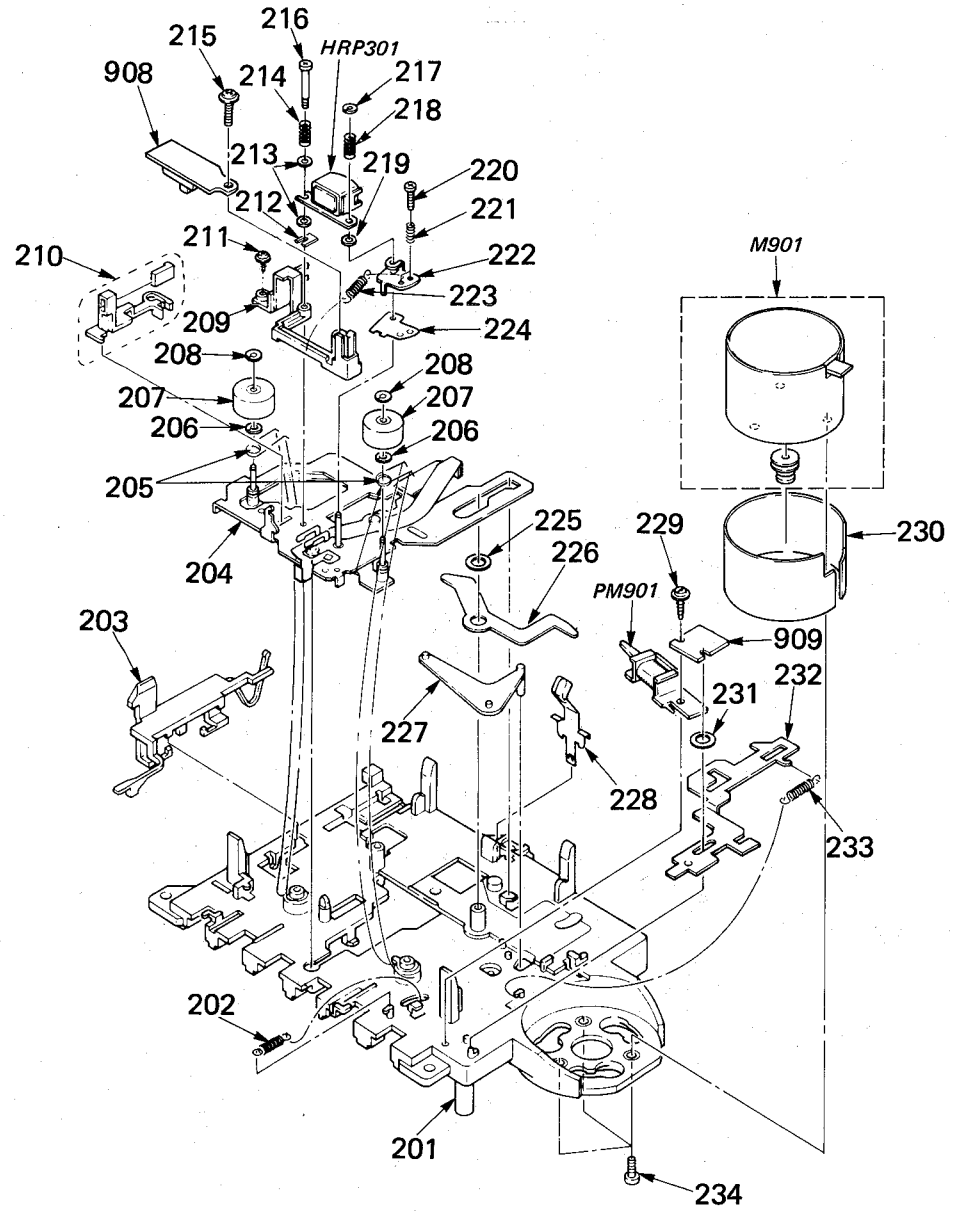
5-4.



No.	Part No.	Description	Remarks
151	*3-321-514-01	LEVER, SWITCH, POWER	
152	*3-330-604-01	PLATE (C), LOCK	
153	*3-322-587-01	PLATE (B), LOCK	
154	X-3330-610-1	LEVER (R) ASSY, S.OFF	
155	3-322-555-01	LEVER (E), S.OFF	
156	*3-322-517-01	LEVER, AMS	
157	*X-3322-505-1	LEVER ASSY, FR	
158	3-322-578-01	SPRING	
159	3-322-516-11	LEVER, PAUSE BUTTON	
160	3-322-515-11	LEVER, REW BUTTON	
161	*3-322-585-11	LEVER, FF BUTTON	
162	3-322-520-01	SPRING, TENSION	
163	3-322-693-01	SPRING, TENSION	
164	*3-322-584-11	LEVER, PLAY BUTTON	
165	*3-322-591-11	LEVER, REC BUTTON	

No.	Part No.	Description	Remarks
166	*3-322-583-11	LEVER, STOP BUTTON	
167	3-322-528-01	SPRING, TENSION	
168	3-322-575-01	SPRING	
169	3-322-554-01	ARM, REC LOCK	
170	3-322-667-01	SPRING	
171	3-322-577-01	SPRING	
172	*3-322-586-01	LEVER, DIRECTION	
173	3-570-615-00	POLY-WASHER (DIA.1.2)	
174	3-322-513-01	COLLAR	
175	3-322-550-01	GEAR (B), FWD	
176	3-322-509-01	GEAR (A), FWD	
177	3-322-689-01	RING	
178	3-322-576-01	SPRING	
179	*X-3322-504-1	ARM ASSY, FWD GEAR	
180	3-322-579-01	SPRING	
181	*3-322-589-01	LEVER, SWITCH	

5-5.



No.	Part No.	Description	Remarks
201	A-3102-061-A	CHASSIS ASSY, MECHANICAL	
202	3-330-633-01	SPRING, TENSION	
203	3-322-512-01	LEVER, EJECT	
204	*X-3333-701-1	CHASSIS ASSY, HEAD	
205	3-326-372-01	SPRING (C)	
206	3-330-642-01	WASHER, CLAMP	
207	3-703-597-41	PINCH ROLLER, STANDARD	
208	3-307-948-01	WASHER, NYLON	
209	3-322-510-01	GUIDE, EBF	
210	A-3114-042-A	ARM ASSY, EBF	
211	7-621-955-35	SCREW (2MMX5), + PWH	
212	3-573-466-01	SPACER, HEAD (t=0.1)	
	3-573-466-11	SPACER, HEAD (t=0.2)	
213	7-688-001-01	W 2, SMALL	
214	7-318-106-01	SPRING (H), COMPRESSION	
215	7-621-772-68	SCREW (M2X12), SMALL, (+ -)	
216	3-322-567-01	SCREW, PAN, STEP	
217	3-570-615-11	POLY-WASHER (DIA.1.2)	
218	3-579-759-00	SPRING, COMPRESSION	

No.	Part No.	Description	Remarks
219	3-701-437-21	WASHER (t=0.5)	
220	7-627-851-27	SCREW, PRECISION +P 1.4X5	
221	3-322-531-01	SPRING, COMPRESSION	
222	3-322-592-01	LEVER, AZIMUTH	
223	3-322-520-01	SPRING, TENSION	
224	3-322-593-01	PLATE, AZIMUTH	
225	3-701-443-01	WASHER, 5 (t=0.13)	
226	*3-322-590-01	LEVER, DIRECTION RELEASE	
227	3-322-514-01	LINK (A)	
228	3-322-595-01	SPRING	
229	7-685-105-14	SCREW (2X8), + PTPWH	
230	*3-319-940-01	PLATE, SHIELD, MOTOR	
231	3-701-437-01	WASHER (t=0.13)	
232	*3-330-601-11	LEVER, MANUAL BUTTON	
233	3-322-528-01	SPRING, TENSION	
234	7-621-770-87	SCREW +P 2.6X5	
908	*1-618-691-11	PC BOARD, HEAD CHANGE FLEXIBLE	
909	*1-602-735-00	PC BOARD	
HRP301	8-825-537-62	HEAD, REC/PB (PP238-3604E)	
M901	A-3133-210-A	MOTOR ASSY	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-618-987-11	PC BOARD, GEQ			
902	⚠1-555-234-00	CORD, POWER			
903	*1-618-989-11	PC BOARD, POWER			
904	1-533-162-00	HOLDER, FUSE			
905	*1-618-694-11	PC BOARD, ANT			
906	*A-3260-383-A	MOUNTED PCB, MAIN			
907	*1-618-988-11	PC BOARD, LEAF SW			
908	*1-618-691-11	PC BOARD, HEAD CHANGE FLEXIBLE			
909	*1-602-735-00	PC BOARD			
910	*1-619-691-11	PC BOARD, MOTOR DRIVING			
911	*1-561-557-00	CONTACT, RECEPTACLE			
ANT1	1-501-262-00	ANTENNA, TELESCOPIC			
C1	1-162-207-31	CERAMIC	22PF	5%	50V
C2	1-162-294-31	CERAMIC	0.001MF	10%	50V
C3	1-162-294-31	CERAMIC	0.001MF	10%	50V
C4	1-162-199-31	CERAMIC	10PF	5%	50V
C5	1-162-306-31	CERAMIC	0.01MF	30%	16V
C6	1-102-866-00	CERAMIC	18PF	5%	50V
C7	1-162-203-31	CERAMIC	15PF	5%	50V
C8	1-162-199-31	CERAMIC	10PF	5%	50V
C9	1-162-306-31	CERAMIC	0.01MF	30%	16V
C10	1-162-211-31	CERAMIC	33PF	5%	50V
C11	1-162-286-31	CERAMIC	220PF	10%	50V
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V
C13	1-162-218-31	CERAMIC	62PF	5%	50V
C14	1-102-262-00	CERAMIC	12PF	5%	50V
C15	1-162-274-11	CERAMIC	20PF	5%	50V
C16	1-162-210-31	CERAMIC	30PF	5%	50V
C17	1-161-709-00	CERAMIC	180PF	5%	500V
C18	1-161-059-00	CERAMIC	0.047MF	10%	25V
C19	1-124-444-00	ELECT	220MF	20%	10V
C20	1-161-715-11	CERAMIC	330PF	5%	500V
C21	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C22	1-161-713-11	CERAMIC	270PF	5%	500V
C23	1-124-443-00	ELECT	100MF	20%	10V
C24	1-162-216-31	CERAMIC	51PF	5%	50V
C25	1-161-055-00	CERAMIC	0.022MF	10%	25V
C26	1-161-055-00	CERAMIC	0.022MF	10%	25V
C27	1-162-560-11	CERAMIC	0.047MF		16V
C28	1-124-907-00	ELECT	10MF	20%	50V
C29	1-124-903-00	ELECT	1MF	20%	50V
C30	1-162-294-31	CERAMIC	0.001MF	10%	50V
C31	1-124-907-00	ELECT	10MF	20%	50V
C32	1-124-443-00	ELECT	100MF	20%	10V
C33	1-124-907-00	ELECT	10MF	20%	50V
C34	1-124-444-00	ELECT	220MF	20%	10V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C35	1-162-306-31	CERAMIC	0.01MF	30%	16V
C36	1-162-561-11	CERAMIC	0.1MF		16V
C37	1-161-054-00	CERAMIC	0.018MF	10%	25V
C38	1-162-561-11	CERAMIC	0.1MF		16V
C39	1-161-054-00	CERAMIC	0.018MF	10%	25V
C40	1-130-471-00	MYLAR	0.001MF	5%	50V
C41	1-124-903-00	ELECT	1MF	20%	50V
C42	1-124-905-11	ELECT	3.3MF	20%	50V
C43	1-124-903-00	ELECT	1MF	20%	50V
C44	1-162-306-31	CERAMIC	0.01MF	30%	16V
C45	1-162-306-31	CERAMIC	0.01MF	30%	16V
C47	1-162-294-31	CERAMIC	0.001MF	10%	50V
C48	1-162-282-31	CERAMIC	100PF	10%	50V
C101	1-130-474-00	MYLAR	0.0018MF	5%	50V
C102	1-162-294-31	CERAMIC	0.001MF	10%	50V
C103	1-124-927-11	ELECT	4.7MF	20%	50V
C104	1-162-282-31	CERAMIC	100PF	10%	50V
C105	1-162-282-31	CERAMIC	100PF	10%	50V
C106	1-124-443-00	ELECT	100MF	20%	10V
C107	1-162-217-31	CERAMIC	56PF	5%	50V
C108	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C109	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C110	1-124-927-11	ELECT	4.7MF	20%	50V
C111	1-123-607-00	ELECT	0.1MF	20%	50V
C112	1-124-927-11	ELECT	4.7MF	20%	50V
C113	1-162-294-31	CERAMIC	0.001MF	10%	50V
C114	1-162-294-31	CERAMIC	0.001MF	10%	50V
C115	1-124-927-11	ELECT	4.7MF	20%	50V
C117	1-124-927-11	ELECT	4.7MF	20%	50V
C118	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C119	1-124-443-00	ELECT	100MF	20%	10V
C120	1-162-207-31	CERAMIC	22PF	5%	50V
C121	1-162-282-31	CERAMIC	100PF	10%	50V
C122	1-124-902-00	ELECT	0.47MF	20%	50V
C123	1-162-306-31	CERAMIC	0.01MF	30%	16V
C124	1-162-306-31	CERAMIC	0.01MF	30%	16V
C125	1-124-445-00	ELECT	100MF	20%	16V
C126	1-124-473-11	ELECT	1000MF	20%	10V
C127	1-136-173-00	FILM	0.47MF	5%	50V
C128	1-102-074-91	(G-AEP)...CERAMIC	0.001MF	10%	50V
C129	1-136-173-91	(G-AEP)...FILM	0.47MF	5%	50V
C201	1-130-474-00	MYLAR	0.0018MF	5%	50V
C202	1-162-294-31	CERAMIC	0.001MF	10%	50V
C203	1-124-927-11	ELECT	4.7MF	20%	50V
C204	1-162-282-31	CERAMIC	100PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C205	1-162-282-31	CERAMIC	100PF	10%	50V
C206	1-124-443-00	ELECT	100MF	20%	10V
C207	1-162-217-31	CERAMIC	56PF	5%	50V
C208	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C209	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C210	1-124-927-11	ELECT	4.7MF	20%	50V
C211	1-123-607-00	ELECT	0.1MF	20%	50V
C212	1-124-927-11	ELECT	4.7MF	20%	50V
C213	1-162-294-31	CERAMIC	0.001MF	10%	50V
C214	1-162-294-31	CERAMIC	0.001MF	10%	50V
C215	1-124-927-11	ELECT	4.7MF	20%	50V
C217	1-124-927-11	ELECT	4.7MF	20%	50V
C218	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C219	1-124-443-00	ELECT	100MF	20%	10V
C220	1-162-207-31	CERAMIC	22PF	5%	50V
C221	1-162-282-31	CERAMIC	100PF	10%	50V
C222	1-124-902-00	ELECT	0.47MF	20%	50V
C223	1-162-306-31	CERAMIC	0.01MF	30%	16V
C224	1-162-306-31	CERAMIC	0.01MF	30%	16V
C225	1-124-445-00	ELECT	100MF	20%	16V
C226	1-124-473-11	ELECT	1000MF	20%	10V
C227	1-136-173-00	FILM	0.47MF	5%	50V
C228	1-102-074-91	(G-AEP)...CERAMIC	0.001MF	10%	50V
C229	1-136-173-91	(G-AEP)...FILM	0.47MF	5%	50V
C301	1-124-927-11	ELECT	4.7MF	20%	50V
C302	1-123-332-00	ELECT	47MF	20%	16V
C303	1-123-332-00	ELECT	47MF	20%	16V
C304	1-124-445-00	ELECT	100MF	20%	16V
C305	1-124-445-00	ELECT	100MF	20%	16V
C306	1-162-306-31	CERAMIC	0.01MF	30%	16V
C307	1-124-904-00	ELECT	2.2MF	20%	50V
C308	1-123-332-00	ELECT	47MF	20%	16V
C309	1-123-332-00	ELECT	47MF	20%	16V
C310	1-162-294-31	CERAMIC	0.001MF	10%	50V
C311	1-162-294-31	CERAMIC	0.001MF	10%	50V
C312	1-123-321-00	ELECT	220MF	20%	16V
C313	1-124-443-00	ELECT	100MF	20%	10V
C315	1-123-321-00	ELECT	220MF	20%	16V
C316	1-130-471-00	MYLAR	0.001MF	5%	50V
C317	1-130-482-00	MYLAR	0.0082MF	5%	50V
C318	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C319	1-123-321-00	ELECT	220MF	20%	16V
C320	1-123-332-00	ELECT	47MF	20%	16V
C321	1-123-332-00	ELECT	47MF	20%	16V
C322	1-162-294-31	CERAMIC	0.001MF	10%	50V
C323	1-162-294-31	CERAMIC	0.001MF	10%	50V
C324	1-123-332-00	ELECT	47MF	20%	16V
C325	1-162-294-31	CERAMIC	0.001MF	10%	50V
C327	1-161-057-00	CERAMIC	0.033MF	10%	25V
C328	1-161-058-00	CERAMIC	0.039MF	10%	25V
C329	1-136-169-00	FILM	0.22MF	5%	50V
C330	1-124-902-00	ELECT	0.47MF	20%	50V
C331	1-124-905-11	ELECT	3.3MF	20%	50V
C332	1-124-904-00	ELECT	2.2MF	20%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C333	1-124-896-00	ELECT	33MF	20%	16V
C334	1-162-282-31	CERAMIC	100PF	10%	50V
C401	1-162-305-31	CERAMIC	0.0068MF	30%	16V
C402	1-162-305-31	CERAMIC	0.0068MF	30%	16V
C405	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C406	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C601	1-161-013-00	CAP, CERAMIC	0.01MF X		
C602	1-124-475-11	CAP, ELECT	470MF		
C701	1-124-903-00	ELECT	1MF	20%	50V
C901	1-161-494-00	CERAMIC	0.022MF	30%	25V
C902	1-161-494-00	CERAMIC	0.022MF	30%	25V
C903	1-161-494-00	CERAMIC	0.022MF	30%	25V
C904	1-124-556-11	ELECT	2200MF	20%	16V
C905	1-161-055-00	CERAMIC	0.022MF	10%	25V
CF1	1-567-198-71	FILTER, CERAMIC			
CF2	1-527-865-00	FILTER, CERAMIC			
CN2	*1-560-467-00	PIN, CONNECTOR 4P			
CN3	*1-560-468-00	PIN, CONNECTOR 5P			
CN4	*1-560-591-00	PIN, CONNECTOR 7P			
CN5	*1-560-467-00	PIN, CONNECTOR 4P			
CN6	*1-560-467-00	PIN, CONNECTOR 4P			
CN7	*1-506-766-11	PIN, CONNECTOR (PC BOARD) 2P			
CNJ2	*1-561-585-00	HOUSING, CONNECTOR 4P			
CNJ3	*1-561-586-00	HOUSING, CONNECTOR 5P			
CNJ4	*1-561-689-00	HOUSING, CONNECTOR 7P			
CNJ5	*1-561-585-00	HOUSING, CONNECTOR 4P			
CNJ6	*1-561-585-00	HOUSING, CONNECTOR 4P			
CNJ7	*1-563-307-11	CONNECTOR (SOCKET) 2P			
CT2	1-141-203-00	CAP, TRIMER 10PF			
CT3	1-141-254-00	CAP, TRIMMER			
CT4	1-141-227-00	CAP, CERAMIC TRIMMER			
CT5	1-141-254-00	CAP, TRIMMER			
CT1	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CV1					
CV2	1-141-259-00	CAP, TRIMMER			
D1	8-719-768-71	DIODE 1S2687S-1			
D2	8-719-911-19	DIODE 1SS119			
D3	8-719-911-19	DIODE 1SS119			
D4	8-719-907-31	DIODE SLP146B-60			
D301	8-719-100-38	DIODE RD6.2EB2			
D302	8-719-907-31	DIODE SLP146B-60			
D701	8-719-911-19	DIODE 1SS119			
D901 ⚠	8-719-200-02	DIODE 10E2			
D902 ⚠	8-719-200-02	DIODE 10E2			
D903 ⚠	8-719-200-02	DIODE 10E2			
D904 ⚠	8-719-200-02	DIODE 10E2			
ECM301	8-814-186-00	MICROPHONE UNIT (C-1014)			
F901 ⚠	1-532-285-00	FUSE, TIME-LAG			
FL1	1-235-536-11	FILTER, BAND PASS			
HRP301	8-825-537-62	HEAD, REC/PB (PP238-3604E)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC1	8-759-204-03	IC TA7358AP
IC2	8-759-603-60	IC M51535P
IC301	8-759-205-91	IC TA7668BP
IC302	8-759-802-47	IC LA4500
IC303	8-759-800-71	IC LA2010
J301	1-562-837-21	JACK (WALKMAN IN)
J302	1-562-837-11	JACK (PHONES)
J901 ⚠	1-526-822-11	INLET, AC (AC IN)
L1	*1-422-181-11	COIL, AIR-CORE
L2	1-459-418-00	COIL (WITH CORE)
L3	1-402-218-11	ANTENNA, FERRITE-ROD (LW/MW)
L4	1-410-316-11	MICRO INDUCTOR 1UH
L5	1-410-315-21	MICRO INDUCTOR 0.68UH
L101	1-408-208-11	(G-AEP)...MICRO INDUCTOR 12mH
L201	1-408-208-11	(G-AEP)...MICRO INDUCTOR 12mH
L601	1-408-159-00	INDUCTOR, MICRO
L602	1-408-159-00	INDUCTOR, MICRO
M901	A-3133-210-A	MOTOR ASSY
PM901	1-454-355-00	SOLENOID, PLUNGER
Q101	8-729-205-84	TRANSISTOR 2SC2458L-BL
Q102	8-729-900-74	TRANSISTOR DTC143TS
Q201	8-729-205-84	TRANSISTOR 2SC2458L-BL
Q202	8-729-900-74	TRANSISTOR DTC143TS
Q301	8-729-900-74	TRANSISTOR DTC143TS
Q302	8-729-606-33	TRANSISTOR 2SC2603-F
Q303	8-729-606-33	TRANSISTOR 2SC2603-F
Q304	8-729-177-33	TRANSISTOR 2SD773-4
Q305	8-729-811-24	TRANSISTOR 2SD1012
Q306	8-729-600-27	TRANSISTOR 2SC634SP
Q307	8-729-100-14	TRANSISTOR 2SC2001-K1
Q701	8-729-606-33	TRANSISTOR 2SC2603-F
Q702	8-729-103-43	TRANSISTOR 2SB734
R1	1-249-405-11	CARBON 100 5% 1/6W
R2	1-249-405-11	CARBON 100 5% 1/6W
R3	1-249-441-11	CARBON 100K 5% 1/6W
R4	1-247-799-00	CARBON 47 5% 1/6W
R5	1-247-819-00	CARBON 330 5% 1/6W
R6	1-249-421-11	CARBON 2.2K 5% 1/6W
R7	1-247-845-00	CARBON 3.9K 5% 1/6W
R8	1-247-853-00	CARBON 8.2K 5% 1/6W
R9	1-247-878-00	CARBON 91K 5% 1/6W
R10	1-247-819-00	CARBON 330 5% 1/6W
R11	1-249-423-11	CARBON 3.3K 5% 1/6W
R12	1-247-819-00	CARBON 330 5% 1/6W
R13	1-249-423-11	CARBON 3.3K 5% 1/6W
R14	1-247-878-00	CARBON 91K 5% 1/6W
R15	1-247-854-00	CARBON 9.1K 5% 1/6W
R16	1-249-405-11	CARBON 100 5% 1/6W
R17	1-249-417-11	CARBON 1K 5% 1/6W
R18	1-247-887-00	CARBON 220K 5% 1/6W
R19	1-249-405-11	CARBON 100 5% 1/6W
R20 ⚠	1-247-693-11	CARBON 27 5% 1/4W F
R21	1-247-793-00	CARBON 27 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R23	1-249-415-11	CARBON 680 5% 1/6W
R24	1-249-441-11	CARBON 100K 5% 1/6W
R25	1-249-429-11	CARBON 10K 5% 1/6W
R26	1-249-437-11	CARBON 47K 5% 1/6W
R101	1-247-811-00	CARBON 150 5% 1/6W
R102	1-247-999-11	CARBON 1.5 5% 1/6W
R103	1-249-434-11	CARBON 27K 5% 1/6W
R104	1-247-803-00	CARBON 68 5% 1/6W
R105	1-249-421-11	CARBON 2.2K 5% 1/6W
R106	1-247-873-00	CARBON 56K 5% 1/6W
R107	1-247-809-00	CARBON 120 5% 1/6W
R108	1-249-434-11	CARBON 27K 5% 1/6W
R109	1-247-823-00	CARBON 470 5% 1/6W
R110	1-249-415-11	CARBON 680 5% 1/6W
R111	1-249-433-11	CARBON 22K 5% 1/6W
R112	1-249-425-11	CARBON 4.7K 5% 1/6W
R113	1-247-891-00	CARBON 330K 5% 1/6W
R114	1-249-423-11	CARBON 3.3K 5% 1/6W
R115	1-247-819-00	CARBON 330 5% 1/6W
R116	1-249-421-11	CARBON 2.2K 5% 1/6W
R117	1-249-425-11	CARBON 4.7K 5% 1/6W
R118	1-247-795-00	CARBON 33 5% 1/6W
R119	1-249-425-11	CARBON 4.7K 5% 1/6W
R120	1-249-405-11	CARBON 100 5% 1/6W
R201	1-247-811-00	CARBON 150 5% 1/6W
R202	1-247-999-11	CARBON 1.5 5% 1/6W
R203	1-249-434-11	CARBON 27K 5% 1/6W
R204	1-247-803-00	CARBON 68 5% 1/6W
R205	1-249-421-11	CARBON 2.2K 5% 1/6W
R206	1-247-873-00	CARBON 56K 5% 1/6W
R207	1-247-809-00	CARBON 120 5% 1/6W
R208	1-249-434-11	CARBON 27K 5% 1/6W
R209	1-247-823-00	CARBON 470 5% 1/6W
R210	1-249-415-11	CARBON 680 5% 1/6W
R211	1-249-433-11	CARBON 22K 5% 1/6W
R212	1-249-425-11	CARBON 4.7K 5% 1/6W
R213	1-247-891-00	CARBON 330K 5% 1/6W
R214	1-249-423-11	CARBON 3.3K 5% 1/6W
R215	1-247-819-00	CARBON 330 5% 1/6W
R216	1-249-421-11	CARBON 2.2K 5% 1/6W
R217	1-249-425-11	CARBON 4.7K 5% 1/6W
R218	1-247-795-00	CARBON 33 5% 1/6W
R219	1-249-425-11	CARBON 4.7K 5% 1/6W
R220	1-249-405-11	CARBON 100 5% 1/6W
R301	1-249-417-11	CARBON 1K 5% 1/6W
R302	1-247-823-00	CARBON 470 5% 1/6W
R303	1-249-415-11	CARBON 680 5% 1/6W
R304	1-247-851-00	CARBON 6.8K 5% 1/6W
R305	1-247-903-00	CARBON 1M 5% 1/6W
R306	1-249-429-11	CARBON 10K 5% 1/6W
R307	1-249-417-11	CARBON 1K 5% 1/6W
R308	1-249-425-11	CARBON 4.7K 5% 1/6W
R309	1-249-437-11	CARBON 47K 5% 1/6W
R310	1-247-791-00	CARBON 22 5% 1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R311	⚠1-247-091-00	CARBON	22	5%	1/4W F
R312	1-249-405-11	CARBON	100	5%	1/6W
R313	1-247-819-00	CARBON	330	5%	1/6W
R314	1-249-435-11	CARBON	33K	5%	1/6W
R315	1-249-425-11	CARBON	4.7K	5%	1/6W
R316	1-247-799-00	CARBON	47	5%	1/6W
R317	1-249-429-11	CARBON	10K	5%	1/6W
R318	1-249-417-11	CARBON	1K	5%	1/6W
R319	1-249-417-11	CARBON	1K	5%	1/6W
R320	1-247-783-00	CARBON	10	5%	1/6W
R321	1-249-415-11	CARBON	680	5%	1/6W
R322	1-247-816-00	CARBON	240	5%	1/6W
R323	1-249-417-11	CARBON	1K	5%	1/6W
R324	1-247-891-00	CARBON	330K	5%	1/6W
R325	1-249-441-11	CARBON	100K	5%	1/6W
R326	1-247-811-00	CARBON	150	5%	1/6W
R327	1-249-417-11	CARBON	1K	5%	1/6W
R328	1-247-845-00	CARBON	3.9K	5%	1/6W
R329	1-249-435-11	CARBON	33K	5%	1/6W
R401	1-249-429-11	CARBON	10K	5%	1/6W
R402	1-249-429-11	CARBON	10K	5%	1/6W
R403	1-247-849-00	CARBON	5.6K	5%	1/6W
R404	1-247-849-00	CARBON	5.6K	5%	1/6W
R405	1-249-434-11	CARBON	27K	5%	1/6W
R406	1-249-434-11	CARBON	27K	5%	1/6W
R407	1-249-433-11	CARBON	22K	5%	1/6W
R408	1-249-433-11	CARBON	22K	5%	1/6W
R409	1-249-435-11	CARBON	33K	5%	1/6W
R410	1-249-435-11	CARBON	33K	5%	1/6W
R701	1-249-437-11	CARBON	47K	5%	1/6W
R702	1-247-839-00	CARBON	2.2K	5%	1/6W
RV1	1-230-503-11	RES, ADJ, CARBON 10K			
RV301	1-230-093-00	RES, VAR, CARBON 20K/20K (VOLUME)			
RV302	1-237-244-11	RES, VAR, CARBON 10K/10K (SPACE SOUND)			
S1	1-570-662-11	SWITCH, LEVER SLIDE (BAND)			
S301	1-554-872-11	SWITCH, SLIDE (REC/PB)			
S302	1-554-874-11	SWITCH, LEVER SLIDE (FUNCTION)			
S303	1-570-068-11	SWITCH, PUSH (1 KEY)(REC NUTE)			
S304	1-553-331-00	SWITCH, PUSH (REV MODE)			
S305	1-554-123-00	SWITCH, SLIDE (FM ST/MONO,ISS)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S306	1-553-331-00	SWITCH, PUSH (TAPE SELECT)
S401	1-554-663-00	SWITCH, SLIDE (HIGH FILTER)
S402	1-554-663-00	SWITCH, SLIDE (HIGH BOOST)
S403	1-554-663-00	SWITCH, SLIDE (LOW BOOST)
S501	1-570-013-11	SWITCH, LEAF (POWER)
S502	1-570-012-11	SWITCH, LEAF (AMS)
S503	1-552-864-00	SWITCH, LEAF (SHAUT OFF)
S601	1-570-657-11	SWITCH, SLIDE (DIRECTION)
SP901	1-503-634-11	SPEAKER
SP902	*1-529-039-11	BUZZER
SP903	1-503-634-11	SPEAKER
SP904	*1-529-039-11	BUZZER
T1	1-403-872-00	I.F.T, FM CONVERTER (SMALL TYPE)
T2	1-402-217-11	COIL (ANT)
T3	1-406-211-11	COIL (SW OSC)
T4	1-406-203-11	COIL (MW OSC)
T5	1-406-204-11	COIL (LW OSC)
T6	1-404-355-00	TRANSFORMER, IF
T7	1-404-630-11	TRANSFORMER, IF
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR
T901	⚠1-448-541-11	TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-333-742-01	CUSHION
3-333-744-01	SHEET, PROTECTION
3-333-747-01	INDIVIDUAL CARTON
3-701-630-00	BAG, POLYETHYLENE
3-703-895-01	(BLACK)....LABEL, COLOR
3-703-906-01	(SILVER)...LABEL, COLOR
3-764-430-01	(G-AEP)...INSTRUCTION DBP CAUTION
3-765-137-41	MANUAL, INSTRUCTION

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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